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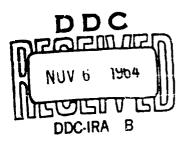
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# CONSOLIDATED TRANSLATION SURVEY

Number 81

For September 1964



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# CONSOLIDATED TRANSLATION SURVEY

### FOR SEPTEMBER 1964

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#### CONSOLIDATED TRANSLATION SURVEY

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#### TRANSLATIONS REPORTED

#### FOR SEPTEMBER 1964

#### USSR

#### Economic

The Becommics of Machine Building, the Organization and Planning of Enterprises, by P. A. Zhukov, 

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Measures to Raise Level of Economic Education, 8 pp.
RUSSIAN, rps, Soylet Economic System: Current
Developments (47),
JPRS 20184

Directives Concerning the Planning of Rural Telephone Networks. (DC-10/50) RUSSIAN, hk, Ukazaniya po Proyektirovaniya Sel\*akikh Telefonnykh Setey, Moscow, 1964, pp 1-120; 138-140; 148-151; 161-. BRQL

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Automatic Operation of Two-Track Innert Adjustment Posts in Spans of One Track Lines, by N. V. Starostina, 16 pp. RUSSIAN, per, Avtomat Telemekh, 1 Svyaz, No 5, 1964, pp 4-8. JPRS 26162

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Automobile industry 1964-1965, by V. Pobedonost sev, 7 pp.
RUSSIAN, per, Aviomobil<sup>†</sup> Transport, No 3, 1964, pp 36-40, JPRS 25832

Second Plenum of Central Committee of Trade Union of Communications, Motor Transport, and Highway Workers, 5 pp. RUSSIAN, per, <u>Aviomobil Transport</u>, No 4, 1964, pp 4, 5.
JPRS 25984

Bificiency of Switching Short-Haul Freight From Railroad Transport to Motor-Vehicle Transport, by I. Bratchenko, 8 pp. RUSSIAN, por, Aytomobil Transport, No 5, 1964, pp 1-3. JPRS 25785

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JPRS 26-229

Economics (Contd)

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JPRS 26046

Self-Purification of Cestum-137 From Water in Weakly Running Reservoirs at Various Speeds of Flow, Volumes of Water, and Concentrations of Cestium, by A. I., Agre, I. V. Mulchanova,

of Castum, by A. I., Agre, I. V. Molecanova, et al, 8 pp.
RUSSIAN, per, Byul Moskov Obshch Lsov Prirot.
Ordel Biolog. Vol LXIX, No 3, May, Jun 1964, pp 20-24.
JPRS 20046

Biochemical Investigation of Some Algae Species,

blockers and the state of the s

A Basic Summary of Fulfillment of the Plan A parts summary of refinements of Science and Bagineering by the Construction Industry in 1963, by Ye. A. Neyevin, 8 pp.
RUSSIAN, per, Byul Stroitel Tekh, No 5, 1964, pp 31-34. JPRS-25716

For Expanded Production and Application of Precast Reinforced Concrete, by Yu. V. Nikolayev, 8 pp. RUSSIAN, por, Byul Stroitel Tekh, No 5, 1964, pp 34-36. JPRS 25716

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JPRS 25737

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JPRS 26053

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JPRS 25716

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Problems in Rastern Siberian Aluminum Production, by M. Ul'yanov, 6 pp. RUSSIAN, np. <u>Ekon Gazeta</u>, No 22, 30 May 1964, p 11. JPRS 26107

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JPRS 25834

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RUSSIAN, np. Sovet Torgoviya, 30 Jun 1964, p 2.
JPRS 26108

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Plan Fulfillment by Soviet Construction Industry During the January-April 1964, Period, 7 pp. RUSSIAN, np. Stroitel Gazeta, 20 May 1964, p 2. JPRS 25716

New Blast Furnace Billet Mill Completed, 26 pp. RUSSIAN, np. Stroitel Gazeta, 14 Jun 1964, pp 1, 2. JPRS 25878

Economy of the Western Urals, by B, Korotkov, 5 pp. RUSSIAN, np, Strottel Gazeta, 17 Jun 1964, p 2, JPRS 26005

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Advanced and Boonomic Materials Must Receive Priority, by A. Chudnovskiy, V. A. Lukashevich, 12 pp. RUSSIAN, per, <u>Stroitel Material</u>, No 4, 1964, pp 13-16. JPRS 25716

Por Greater Output and Utilization of Non-Metallic Pipe, by V. G. Fel<sup>2</sup>zenbaum, F. L. Davydova, et al, 7 pp. RUSSIAN, per, Stroitel Material, No 5, 1964, pp 10, 11. JPRS 25716

Future Developments in the Porous Aggregate Industry, by B. M. Grissik, M. P. Hhlinzon, 10 pp. RUSGAN, per, Scrottel Material, No 6, 1964, pp 21-24.
JPRS 25046

The Lumber Carrier Maloyarestavets, by V. N. Zakharov, 11 pp. RUSSIAN, per, <u>Sudostroventye</u>, No 5, 1964, pp 1-5, JPRS 25785

Chemistry in Shipbuilding, Specific Plan for Introduction of Chemical Materials into Production Proposed for Each Enterprise, by A. D., Kuznetsov, 5 pp. RUSSIAN, per, Sudostroyeniye, No 5, 1964, pp 68, 69.

February Plenum of Central Committee CPSU of Intensification of Agricultural Production, 7 pp. RUSSIAN, per, Svaroch Proiz, No 4, 1964, pp 1, 2.

JPRS 26129

USSR Economics (Contd)

Trado Unions Must Aid Introduction of Inventions, by V. V. Grianin, 5 pp. RUSSIAN, np, Trud, 27 Jun 1964, p 2, JPRS 26010 Kolkhoz Pension Law, 6 pp. RUSSIAN, mp, Trud, 16 Jul 1964, p 1. JPRS 26010 All-Out Development of Home Services to Workers, 16 pp. RUSSIAN, np, Trud, 26 Jul 1964, p 2. JPRS 26108 For Reduced Manufacturing Louses in the Cement Industry, 5 pp.
RUSSIAN, por, Tecment, No 2, Mar, Apr 1964, pp 1, 2. JPRS 25716 neorganization Needed at the Red Protetarian Plant, by N. Dunayov, V. Pilyukov, et al, y pp. RUSSIAN, np. <u>Vechernaya Moskya</u>, li, 12, 13 Jun 1964, p 2. JPRS 20282 Reorganization Needed at the Red Proletarian Puel-Power Balance of USSR for 1962 and Problems of Rational Use of Fuel and Energy, by A. Riznik, S. Litvak, 18 pp. RUSSIAN, per, Vest Statist, No 5, 1964, pp 11-23.

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USSR Economics (Cond)

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JPRS 25785 Reserves for Reducing the Empty Run of Cars, by S. L. Al<sup>†</sup>terman, I. O. Kazovskiy, 13 pp. RUSSIAN, per, Zhelezoodorozhnyy Transport, No 5, 1966, pp 10-16.

JPRS 25785 Collaboration of Member Countries of the Council of Mutual Economic Assistance in the Field of Transport, by V. S. Gavrilov, 9 pp. RUSSIAN, por, Zheleznodozhnyy Transport, No 5, 1964, pp 17-21.

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BULGARIAN, per, Novo Vreme, No 6, 1964, pp 70-77. JPRS 25952 Capital Construction in the Likrainian SSR, by M. Lelichenko, 7 pp.
UKRADNAN, per, <u>Rkonomika Radyana\*koy Ukraini</u>,
No 3, May, Jun 1964, pp 3-8.
JPRS 25787

#### USSR Political

The Building of Communism in the USSR and the Development of Agriculture, by N. S. Khrushchev, RUSSIAN, bk, Stroitel stvo Kommunizma v SSSR i Razvitiye Sel skogo Khozyaystva, Moscow, 1962-1964, JPRS 25842 Growth in Soviet-Arab Cooperation, 8 pp. RUSSIAN, per, Aziya i Afrika Segodnya, No 7, 1964, pp 4-6, 11. JPRS 26024 Levestiya Scores Chinese Party and Government Leaders, by V. A. Zorin, 6 pp. RUSSIAN, np, Izvestiya, 30 Jun 1964, p 2. JPRS 25501 Compares Soviet and Chinese Aid to Emerging Nations, by K. Dontsov, 6 pp.
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JPRS 25950 Soviets Say Chinese National Egolsm Underlies Policy Toward Emerging Nations, by Vladimir Kudryavtsov, 6 pp. RUSSIAN, np. <u>Izvostiya</u>, 2 Aug 1964, p 3. JPRS 26058 The Right of the Soviet Union to Participate in Afro-Asian Conference, 11 pp. RUSSIAN, per, Kommunist, No 2, May 1964. Workers! Class Leadership in the Struggle for Communism, by A. Mitrofanova, V. Poletayev, RUSSIAN, per, Kommuniar, No 8, May 1964, pp 46-56. JPRS 25473 Gorrect Approach to the History of West Belorussia's Communist Party, 17 pp. RUSSIAN, per, <u>Kommunist</u>, No 8, May 1961, pp 68-79. JPRS 25473 Criticism of Anti-Marxist Economic Theories, by E. Bregel<sup>1</sup>, 9 pp. RUSSIAN, per, Kommunist, No 8, May 1964, pp 90-97. JPRS 25473 The Classics of Marxism on Agrochemistry, by R. Konyushaya, 9 pp. RUSSIAN, por, <u>Kommunist</u>, No 9, Jun 1964, pp 42-46. JPRS 25654 The Dissidents Will Not Force World Communism From the Leniniat Path, 10 pp. RUSSIAN, por, Kommunist, No 9, Jun 1964, pp 79-86, JPRS 25654 15 June 1964 Letter to the Central Committee of the Communist Party of China, 17 pp. RUSSIAN, per, Kommunist, No 10, Jul 1964, pp 9-20. JPRS 26004 Soviet-Japanese Diplomatic Relations Revised, by I. Nikolayev, M. Yarlyev, 7 pp. RUSSIAN, per, Kommunist, No 10, Jul 1964, pp 124-127. JPRS 26004 New Soviet Collection of Dispute Documents Reviewed, by V. Larin, 13 pp. RUSSIAN, per, Politich Samoobraz, No 7, 1964, pp 11-18. JPRS 25840 Zhukov Deplores New Chinese Wall, by Yuriy Zhukov, 6 pp. RUSSIAN, no, Pravda, 21 Jun 1964, p 5. JPRS 25484 Soviets Document Chinese Departures From Line of International Communist Movement, 26 pp. RUSSIAN, np., Pravda, 19 Jul 1964, p 4; 25 Jul 1964, p 3. JPRS 26219

#### USSR Political (Contd)

An International Conference is the Way to Consolidation of the Communist Movement, 10 pp.
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RUSSIAN, np, Prayda, 11 Aug 1904, p 1, JPRS 25938
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GRRMAN, per, Osteuropa, Vol XIV, No 6, pp 409 421, JPRS 25484
Khrushchev Answers Questions in Penmath, 5 pp.
CERMAN, 19, Teleong van Letzeburger Vollek, 7 Jul 1904, 190 6.

#### Military

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RUSSIAN, per, Kommuniar Veseruznenayth,
No 10, May 1964, pp 3: 44,
JPRS 20202 Future Engineers, by N., Gorbachev, 7 pp. RUSSIAN, np. Kragnaya Zvezda, No. 115, 17 May 1864, p. 7. JPRS 26202 Long-Distance Air Force Jet Flights, by N. Kotysh, o pp. RUSSIAN, op, Krasnaya Zvezda, 24 May 1904, pp 2, 3. JPRS 25992 Training for Modern War, by Diyachenko, 6 pp. RUSSIAN, np. Kramaya Zvezda, 26 May 1964, pp 2, 3. JPRS 26202 How to Cope With the Flow of Paper, 6 pp. RUSSIAN, np. Kramnaya Zvezda, 31 May 1964, p 2. JPRS 25992 Unsung Heroes of Cosmonauts! Ground Crews, by N. Mel'mkov, 5 pp.
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#### USSR Military (Contd)

Military Psychology and Its Practical Application, by M. Korobeynikov, 6 m., RUSSIAN, np. Krasnaya Zvezda, No 144, 20 Jun 1964, 2. JPRS 26202 Pivo Difficult Years Trains Young Men to Become Naval Officers, by O. Baranov, 6 pp. RUSSIAN, np, Krasnava Zyczda, No 149, 26 Jun 1964, p 2. JPRS 25841 The Commander and the Staff, by V. D. Ivanov, 7 pp. RUSSIAN, np. Krasnava Zvezda, No 161, 10 Jul 1964, pp 2-3. JPRS 25841 Experience, Traditions and New Weapons, by A. Kozhevnikov, 3 pp. RUSSIAN, np. Krasnaya Zvozda, No 160, 16 Jul 1964, p 2. JPRS 26220 Great Power Over the Seam, by I 1, Borzov, 5 pp. RUSSIAN, np. Krasnaya Zvezda, No 168, 18 Jul 1904, p 2. JPRS 26220 The Beauty of Rocketeer Service, by V. Ivantuov. 5 pp. RUSSIAN, np. Kramaya Zvozda, No 181, 2 Aug 1964, p 2. JPRS 26220 Military Cooperation of the Navies of the Socialist Countries is Becoming Stronger, by N. N. Ivanhnev, A. G. Kozlov, 7 pp. RUSSIAN, per, Morskoy Shorntk, No 7, 1963. 9091515 DΙΛ PC 620/2-1-64 Some Problems of Training Teams From ASW Vessels and Submarines in Tactical Training Laboratories, by V. E. Mayorov, 5 pp. RUSSIAN, per, Morknoy Shornik, No 7, 1963. 9691515 DIA PC 620/2-1-64 The Merchant Marine of the USSR is on the Rise, by V. G. Bakayev, 10 pp. RUSSIAN, per, Morskoy Sborntk, No 7, 1963. 9691515 DΙΛ PC 620/21-64 The Employment of Aircraft in Amphibious Operations, by P. D. Guidenko, Yu. A. Bryukhanov, 6 pp. RUSSIAN, per, Morskoy Shorntk, No 7, 1963. 9691515 NΩ PC 620/2-1-64 Books About the Historic, Unforgettable Past, by F. I. Chernyshev, 10 pp. RUSSIAN, per, <u>Morskoy Sboralk</u>, No 7, 1963. 9691515 DIA PC 620/2-1-64 Donaaf Plenum on Improving Primary Organizations, 10 pp. RUSSIAN, np. Sovet Patriot, 14 Jun 1964, pp 1, 2, JPRS 25942 Donast Plenum Calls for More Equipment, " pp. RUSSIAN, up, Sovet Patriot, 14 Jun 1964, p 2. JPRS 25942 Special Decontemination, by I. Kantyrev, 6 pp. RUSSIAN, per, Stat shina-Sergiant, No 6, 1964, pp 23-29. JPRS 25841

#### USSR Military (Contd)

Civil Dofenso Training Exercises in a Rural Arca, ny I. Boltbat, 5 pp.
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JPRS 26081

#### Sociological

The Union Between the Porces of Socialism and the National Liberation Movement, 11 pp. RUSSIAN, per, Kommunist, No 8, May 1964, ip 3-10, JPRS 25473 In the Common Ranks and Toward a Single Goal, by V. Akhundov, 12 pp. RUSSIAN, per, Kommunist, No 8, May 1904, pp 11-19. JPRS 25473 The Communities of the World Reject Dissidence, RUSSIAN, per, Kommunist, No 8, May 1964, pp 20-34. JPRS 25473 Borona and Herotem in Soviet Literature, by V. Chalmayev, 13 pp. RUSSIAN, per, Kommunist, No 8, May 1964, pp 80-89, JPRS 25473 Peaceful Coestatence in Action, 7 pp. RUSSIAN, per, Kommunist, No 10, Jul 1964, pp J-8. JPRS 26004 The Ast of a Heroic Rpoch, 30 pp. RUSSIAN, per, Kommunist, No 10, Jul 1964, pp 25-48. JPRS 26004 Algeria Chooses Socialism, by N. Prozhogin, 13 pp. RUSSIAN, per, Kommuntat, No 10, Jul 1964. pp 99-107. JPRS 26004 The Pirst Marxist Philosophical Encyclopedia,

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pp 16-18, JPRS 25813

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USSR Sociological (Contd)

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JPRS 26070

Researchers Should be Trained From Childhood, 8 pp.

UKRAINIAN, per, Radvana ka Shkola, Vol XLII, No 5, 1963, pp 14-17.

JPRS 25894

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UKRAINIAN, per, Radvana ka Shkola, Vol XLII, No 5, 1963, pp 17-21.

JPRS 25894

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UKRAINIAN, per, Radyana ka Shkola, Vol XLII, No 5, 1963, pp 37-43.

JPRS 25894

#### Biographic

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RUSSIAN, bk. Lyudi I Politika, Moscow, 1964, pp 218-221, 11-13, 227-230, 226-230, 318-320, 329-331, 332-335, JPRS 25962
Zhoviy Grigor'evich Pinsker Sixtieth Birthday Anniversary, 5 pp.
RUSSIAN, per, Moscow Kristallografiya, Vol IX, No 1, 1964, pp 3-6, JPRS 25702
Khabib Mukhamedovich Abdullaev, by Kh. N. Baymukhamedov, 5 pp.
RUSSIAN, per, Zapiski Vses Obshch, sorice 2, Vol XIII, No 2, 1964, pp 179-181.

#### **FASTERN EUROPE**

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ALBANIAN, per, Gazeta Zyrtare, No 4, 5 Jun 1964, pp 71-75.

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ALBANIAN, per, Rruga e Partine, No 7, 1964, pp 37-52.

JPRS 26271

hastern Europe Economic (Contd)

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BULGARIAN, per, <u>Durzhaven Yesunik</u>, No 60,
31 Jul 1964, pp 4, 5.
JPRS 26156 Basic Proposals for the Development of Power Supply in the City of Sofia, by M. Spirov, 10 pp. BULGARIAN, per, Elektroenergiya, No 4, Specifications for the RUSE-IZTOK Thermal Kh. Ladozov, 10 pp.
BUI.GARIAN, per, <u>Elektroenergiya</u> No 4, 1964, pp 14-18.
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Potur Bosov, 8 pp.
BULGARIAN, por, Pinansi J Kredit, No 4,
1964, pp 11-18.
JPRS 25700 Monetary Payments for Labor in and Financial Strengthening of TKZS, by Dimitur Yanov, 10 pp. BULGARIAN, per, Financial Kredit, No 4, Jun 1964, pp 34-42.

JPRS 25700 The Development of Bulgarian Finances During the Iwenty Years of Communist Rule, by Kiril Lazarov, 12 pp. BULGARIAN, per, Pinansi i Kredit, No 5, Jul 1964, pp 3-13. JPRS 26294 the Real Wages of Bulgarian State Employees Under Capitalism and Today, by Lyuben Berov, 17 pp. BILLGARIAN, per, <u>Pinanal i Kredit</u>, No 5, Jul 1964, pp 14-27, JPRS 26294 The Real Wages of Bulgarian State Employees Certain Questions on Income Taxes for Collective DELIBIO QUE BIONE ON INCOME TAXAS FOR CE FARMS, by Vladimir Grigorov, 14 pp. BULGIARIAN, per, Finansi i Kredii, No 5, Jul 1964, pp. 28-39. JPRS 20294 Taxation of Collective Parms and its Resnowic Significance, by Nikola Belikov, 12 pp. BULGARIAN, por, Finanai i Kredit, No 5, Jul 1964, pp 40-50, JPRS 20294 The Methodology for Determining the Economic Rifectiveness of Variants for the Territorial Distribution of Industry, by A. R. Probst, 22 pp. BULGARIAN, per, <u>Ronomicheska Misul</u>, No. 5, 1964, pp. 3-17, JPRS 25926 The Rifective Use of Current and Fixed Assets and Material Interest, by Ivan Mironov, 18 pp. HULGARIAN, per, Ikonomicheska Misul, No 5, 1964, pp 18-29, JPRS 25926

Progema in Services to the Public,

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Economic Relations Between the Balkan Countries, by Khristos Fundulis, 18 pp. BUI.GARIAN, per, <u>Ikonomicheska Misul</u>, No 5, 1964, pp 54-68. JPRS 26284 The Growth of Bulgarian Industry, by G. Atanasova, 9 pp.
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JPRS 25926 The New Stage in the Economic Cooperation Among Socialist Countries, by Olog Tarnovski, 19 pp. BULGARIAN, per, Ikonomicheska Misul, No 6, 1964, pp 3-16.

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BULGARIAN, por, Khidrotokhnika i Melioratsii, No 3, Apr. May 1964, pp 74-76.
JPRS 25725 For the More Rational Utilization of Coking Gas at the Kremikovskiy by-Product Coke Plant, by G. Angelova, 14 pp. hill, GARIAN, por, Khimiya i Industriya, No 2, Mar-Apr 1964, pp 66-72. JPRS 26072 The Development of the Bulgarian Chemical Industry, by Aleksi Kuzmanov, 8 pp. BULGARIAN, per, Khimiya i Industriya, No 4, Jun 1964, pp 121-124.

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BULGARIAN, per, Kooperstivno Zemedolio, No 7,
1964, pp 3, 4.

JPRS 25725 The Application of the Bulgarian Self-Propelled Chassis SSh-22 in Agriculture, by Boziddar Sataydatov, 6 pp. BULGARIAN, per, Mekhanizatsiya i Elederifi-katsiya na Selakoto Stopanstvo, No 4, 1964, pp 8-10, JPRS 25952 Sentringugal Pertitiver Spreader MIK-1, by G. Ganchey, B. Georgley, 6 pp. BULGARIAN, per, Mckhantzatsty a 1 Ricktriffikat-giva na Selwkoto Stopanstvo. No 4, 1964, pp 20-22, JPRS 25952 The Problems in the International Socialist Division

of Labor in Agriculture, by Stoyan Shalamanov, 11 pp. BULGARIAN, per, Novo Yreme, No 6, 1964,

pp 78-89 JPRS 26110

Lastern Europe Economic (Coatd)

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Selskoto Stopanstvo, No 5, 1954, pp 195-200.
JPRS 25725 Ronomic Cooperation Between Bulgaria and the USSR, by Ivan Gubenko, 11 pp.
BULGARIAN, per, Partien Zhivor, Vol VIII,
No 10, Jul 1964, pp 81-87.
JPRS 20284

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Ratablishing the Level of Livestock Production, by Vasil Mishey, 11 pp. BULGARIAN, per, Planovo Stopanstvo I Satistiks, Vol XIX, No 6, 1964, pp. 27-37.

JPRS 25850

Improving the Method of Measuring the Lovel of Expenditures for the Procurement of Agricultural Products, by Kostadin Savov, 7 pp.
BULGARIAN, per, Planovo Stopanstvo I Statistika,
Vol Alx, 80 6, 1964, 38-44,
JPRS 2-8550

For Raining the Productivity of the Lagging Collective Farms, by Lyub, Velev, 6 pp. BUII GARIAN, up, Rabotnichenko Delo, 19 Jul 1964, p 2. JPRS 25996

Further Internification of Recognic Work and Tightoning of Pinancial Discipline in Business Enterprises and Establishments, by Dimit'r Popov,

Bull.GARIAN, por Schelovodatvo I Kontrol, No 2, Mar, Apr. 1964, pp. 3-12. JPRS 25829

Poreign Exchange Control, by Petur Velkov, 8 pp. BULGARIAN, per, Schetovodstvo I Kontrol, No 3, 1904, pp 3-19, JPRS 26156

The Turnover lax, by Djordje Todorovic, 41 pp. CROATIAN, per, Rkonomaki Pregled, No 3 5, 1964, pp 175-210. JPRS 25829

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The Basic Law on Contributions and Taxes of Citizens, GROATIAN, per, Sluzbent List SFRJ, No 32, 29 Jul 1904, pp 641-656.
JPRS 26256

Current Problems in Construction in Yugoslavia, by Milos Jaric, 37 pp. CROATIAN, per, <u>Ichnika</u>, Vol XIX, No 7, 1964, pp 1211-1222. JPRS 26272

Problems in Agricultural Investment Construction, by Jaroslav Boudny, 11 pp. CZEGI, per, <u>Ekonomika Zemedelstvi</u>, Vol III, No 6, 1964, pp 163-165. JPRS 25549 The International Equalization of National Income, by Lubomir Kruzik, 15 pp. CZBCH, per, Nova Mysl, No 6, 1964, pp 726-734. JPRS 25869 Why Deliberate About a New System, by Jan Ferianc, 15 pp CZEUI, per, Nova Mysl, No 7, 1964, pp 319-329. JPRS 26156 Industrialization of Agriculture, by by Stefan Perencel, 13 pp.
CZECII, per, Nova Mysl., No 7, 1964, pp 837-834.
JPRS 26190 Position of Criteria of Management Effectiveness, by Frantiack Valenta, 10 pp.
CZECH, per, Politicka Ekonomie, No 4, 1964, pp 328-333.
JPRS 26185 Improvement of System of Planned Management, by Ota Sik, 20 pp.
CZRCII, np, Rude Pravo, 22 Nov 1963, pp 3-6,
JPRS 26256 Housing Construction in the Villages, by Josef Pavlu, 6 pp. CZECH, per, Vystavba Socialisticke Vesnice, No 4, 1964, pp 87, 88. JPRS 25806 Traction Changes on the East German Railroads, by Hans Jonehim Ziem, 10 pp. GERMAN, per, Deutsche Einenbahn Technik, No. 5, 1964, pp. 193-196, JPRS 25924 Minister of Pinance Demanda Higher Quality of Work in the German Bank of Issue, or work in the German Bank of Issue, by Willy Rumpf, 15 pp. GRRMAN, per, Deatsche Pinanzwirtschaft, No 10, May 1964, pp 2-8. JPRS 25869 Tasks of the Floancial Organs in Planning for 1965, by Walter Krause, 14 pp. GRRMAN, por, Doutsche Finanzwirtschaft, No 12, Jun 1904, pp 5-10, JPRS 26156 Construction of Chemical Installations Pacing Major Tasks, by Paul Franc, Franz Muller, 15 pp. GRRMAN, per, Rinbett, No 6, 1984, pp 19-27 JPRS 25782 The Berlin Main and Irternational Exchange, by W. Schlenzig, 5 pp. GERMAN, pet, <u>Der Perumelde-Praktiket</u>, Vol IV, No. 5, 1964, pp. 97, 98. JPRS 25980 The Telephone Network of the Bast German, by H. Burhardt, 9 pp.
GERMAN, per, Der Permelde-Praktiker,
Vol IV, No 6, 1964, pp 128-130, 135,
JPRS 20154 Decree on the Statute of the State Planning Commission, Dated 16 April 1964, 16 pp. GERMAN, per, Gesetzblatt der Deutschen Demokratischen Republik, Pari II, No 69, Jul 1964, pp. 621-627. JPRS 25926

Model BWR-X 10 Weather Radar of the VRB Punkmechanik Experimental Plant in Leipzig, by F. Mueller, R. Wagner, 8 pp. GREMAN, per, Nacht Ichtentechnik Elektronik, Vol XIV, No 6, 1964, pp 235-238. JPRS 25782 Leonomic (Contd) Some Experiences Derived From the Past Work

Fastern Lucope

of the Production Committees, 7 pp. GRRMAN, no. Nebet Wog. Sc 12, Jun 1964, pp 551-555. JPRS 25809

Industrial Planning Under the New Economic System, by Helmut Stopai, 5 pp. GRRMAN, per, Presse-Informationen, No 83, 24 Jul 1964, pp 2, 3. JPRS 26185

The Development of Port Traffic in the People's Republic of Poland, by Gaeslaw Wojewodka, o pp. GERMAN, per, Schiffbautechnik, No 2, 1904, pp 96-99. Navy Tr 3860/ONI 1005

Important Question of Investment Activity in Water Management, by G. Reiss, o pp. GRRMAN, per, Wasserwittschaft-Wassestechnik, vol XIV, No. 5, 1001, pp. 129, 130.

JPRS 25855

Development of River Construction Capacities of Underground Construction Enterprises Under the Bezirk Construction Offices, by Horst Walker.

GERMAN, per, Wasserwirtschaft-Wasserrecheik, No 0, 1904, pp 161-163, JPRS 25995

Rechanneling of the Pliessnitz River, by Dieter Gosewisch, 11 pp. GRRMAN, per, Wasserwirtschaft-Wannertechnik, vol XIV, No 7, 1964, pp. 196-200. JPRS 20184

Outlook for the Lubricanta Industry in the GDR, by F. W. Matschke, 7 pp. GERMAN, op. Die Wittshaft, No 20, 18 May 1964, pp 1, 2, JPRS 25782

The Production Fund Levy, an Economic Experiment, by Harry Nick, 20 pp. GRRMAN, up, Die Wittnehalt, No. 21, 25 May 1964, pp 10-21, JPRS 25981

East German Line Services in the Port of Hamburg, by Manfred Schelzel, 5 pp.
GERMAN, pp. Die Wittnehaft, 15 Jun 1964, p 21. JPRS 26258

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Mechanization and Automation of Superatructure Work on the Raticoad Lines of the OSShD, by J. Norgradi, 5 pp. GERMAN, per, Zeitschrift der Organization fuer die Zusammenarbeit der Eisenbahnen, No 2, Vol VII, 1964, pp. 1-4.

JPRS 25485

Development of Mobile Radio-Telephony Facilities of the Railroads, by J. Godwod, 5 pp. GERMAN, pet, Zeitschrift der Organisation fuet die Zusammenarbeit der Ebsenbahnen OSSiD, No 2, 1964, pp 17:19.

JPRS 25485

Reports on OSSMI Commission Work, 11 pp. GERMAN, per, Zeitschriff der Organization fuer die Zusammenarbeit der Risenbahnen CSSMD, No 2, 1964, pp. 25-31, 1PRS 25485

Strengthening the Transportation System of the Socialist Countries, by B. P. Bezchev, 8 pp. GRRMAN, por, Zeitschrift der Organisation fuer die Zusammenarbeit der Eisenbahnen OSShD, No 3, May, Jun 1964, pp 1-4.

JPRS 26074 Experiences in the Electrification of the Bulgarian Railroads With Industrial Prequency AC Current, by K. G. Resashki, 10 pp.
GERMAN, por, Zoltschrift der Organisation fuer
die Zusammenarbeit der Elsenbahnen OSShD.
No 3, May, Jun 1964, pp 4-8.
JPRS 26074

OSZhD Committee Work, 23 pp. GRRMAN, per, Zeltschrift der Organisation fuer die Bisenbahnen OSShD, No 3, May, Jun 1964, JPRS 26074

The Fixed Assets of the Hungarian National Economy, 70 pp. HUNGARIAN, brochure, Statisztikai Idoszaki Kizlemenyek, Vol Lill, LXIII, Mar 1963. JPRS 26215

Current Problems of Ricctric Power Supply, by Andras Levai, 6 pp. HUNGARIAN, per, Elektrotechnika, Vol I.VII, No 4, 5, 1964, pp 125-128, JPRS 25734

Automation of Electric-Power Networks and its Further Development, by Feronc Kovac, 10 pp. IIUNGARIAN, por, Elektrotechnika, Vol LVII, No 6, 1904, pp 196-201.

JPRS 26154

Utilization of the Input-Output Table to Perspective Planning, by Laszlo Ullaki, 8 pp. HUNGARIAN, np. Figvelo, No 7, 1964, p 3.

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The Differentiated Financing of Investments, by Zauzan Razo, 7 pp. HUNGARIAN, np. Figyolo, 15 Jul 1964, p 3. JPRS 26048

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The 1964 Price Regulation in the Gas Industry, by Geza Gomory, Hela Mihok, Io pp. IIUNGARIAN, per, Ipari Energiagazdalkodaa, Vol V, No 5, 1964, pp 103-111. JPRS 2580

Development of Danubian-Maritime Vessels In Hungary, by Bela Balogh, 17 pp.
HUNGARIAN, per, Jarmuyek Mezogazdasagt
Gepek, Vol XI, No 4, 1964, pp 133-140.
JPRS 25472

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Organization and Operational Code of the Ministry of Metallurgy and Machine Industry, 69 pp. IIUNGARIAN, per, Ko-ho- ex Geptpart Kozlony, Vol XIV, No 17, 7 May 1964, pp 1-23.

JPRS 25860

Eastern Europe Economic (Contd)

Some Problems of State Support for Agricultural Cooperatives, by Buso Kitalyi, 12 pp. HUNGARIAN, per, Kozgazdasagi Szemle, Vol XI, No 5, 1964, pp 582-591.

JPRS 25944

Agricultural Manpower Situation During the Second and Third Pive-Year Plan Perioda, by Gyorgy Pekete, Gyula Hegedus, et al, 9 pp. HUNGARIAN, per, Kozgazdasagi Szemlo, Vol XI, No 5, 1964, pp 592-606. JPRS 25944

The Role of Partities in Determining the Value Aggregates of Portegn Trade, by Ferenc Szollosy, 7 pp. HUNGARIAN, per, <u>Kulkereskedelem</u>, No 7, 1964, pp 6-8. JPRS 25712

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JPRS 26112 Minister of Heavy Industry Replies to Questions of the Technicians, 13 pp.

HUNGARIAN, por, Muszaki Riot, Vol XIX,
No 12, 4 Jun 1964, pp. 1, 3.

JPRS 25583

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HUNGARIAN, per, Partelet, Vol IX, No 6, 1964, pp 10-16.
JPRS 25549

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HUNGARIAN, por, Ponzugyi Szomle, Vol VIII,
No 5, 1964, pp. 353-363.
JPRS 25578

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JPRS 26156

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Reorganizations in the Electric Power Industry, hy Janos Schiller, 6 pp.
HUNGARIAN, per, Villamossag, Vol XII, No 6,
1964, pp 161-164.
JPRS 25806

Cooperative-State Farm Enterprises as an Alternative to Producer Cooperatives, by Waldemar Michna, 17 pp. POLISH, per, <u>Rkoromina</u>, No 3, 1964, pp. 587-597, JPRS 26190

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POLISH, np, Gazeta Handlowa, No 50, 23 Jun 1964, P 4. JPRS 26258 Major Factors Determining the Objective Opportunities for Polish Economic Development in the 1966-1970 Period, by Stefan Jedrychowski, POLISH, per, Gospodarka Planowa, No 6, 1964, pp 1-7. JPRS 26142 Basic Economic Ratios of the Draft Five Year Plan for the 1966-1970 Period, by by Zdzisław Doutschman, 13 pp. POLISH, per, Gospodarka Planowa, No 6, 1964, pp 7-13, JPRS 20142 Trends in Agricultural Investment for the 1760-1970 Poriod, by Adam Szynkarczuk,
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1964, pp. 13-16.
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POLISH, np. Kraje Socialisyczne: Gospodarka i Handel, 21 Jul 1964, pp. 87, 88, p IV.
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JPRS 26255 CRMA and the Recommically Developing Countries, Dy T. Witt, 5 pp.
POLISI, np, Rynki Zagraniczne, No 90,
28 Jul 1964, p 3.
JPRS 26110 Certain Yugoslavian Banking Problems, Certain Yugosawan Jakong Fredering, by Wladyslaw Jaworski, 14 pp. POLISH, per, Wladomose! Naredowego Banku Polakiego, No 6, 1964, pp. 205–209. JPRS 25943 The Major Problems of Agricultural Develop-ment in the Years 1966-1970, by M. Solecki, 6 pp.

Greater Assortment of Metallurgical Products and Steel Savings, by Tadousz Moskalewski, POLISH, np. Zycie Gospodarcze, No 22, 31 May 1964, p 6.
JPRS 25583 Tasks of the Chemical Indistry, by Franciszek Waniolka, 10 pp. POLISH, np. Zycie Gospodarcze, No 22, 31 May 1964, pp 6, 7. JPRS 25583 20th Anniversary of the Polish Chemical Industry, by Wladysiaw Dzudzinski, 10 pp. POLISH, np. Zycie Gospodarcze, No 23, 7 Jun 1964, pp 1, 4, 5, JPRS 25583 Animal Production Trends-Why the Proportions Must Be Changed, by Stanislaw Guewa, 9 pp. POLISH, np. Zycie Gospodarcze, No 23, 7 Jun 1964, pp 1, 0. JPRS 25892 Should the Financing System of Industrial Associations be Changed and in What AMBOURTIONE DE CHANGES and in What Manner, by Wanda Moscicka, 10 pp. POLISI, np. Zyclo Gospodarcze, No 23, 7 Jun 1964, p 4. JPRS 25487 Consumer Problems During the New Pive-Year Plan, by Grzegorz Pisarski, 10 pp. POLISI, np. Zycie Gospodarcze, Vol XIX, No 24 (665), 14 Jun 1964, p 4. JFRS 25560 Polish Electrical Machine Building Industry Production Capacity, by Wladielaw Dudzinski, POLISH, np, Zycio Gospodarcze, Vol XIX, No 28, 21 Jun 1964, pp 1, 6. JPRS 25699 Price System and the Management of the Pharmaceutical Industry, by Stanislaw Bukowski, 8 pp. POLISH, np, <u>Zycio Gospodarczo,</u> No 26, 28 Jun 1964, p 9. JPRS 25892 Data on the Office for Nuclear Technology Rquipment, by Jerzy Swiech, 6 pp. POLISH, np. Zycie Gompodarcze, No 26, 28 Jun 1964, p II. JPRS 25952 Production Reserves in Heavy Industry, by Andrzej Bober, 5 pp.
POLISH, np. Zycle Gospodarcze,
No 28, 12 Jul 1964, pp 1, 10. JPRS 25782 Some of the Problems of Shipowners, Some of the Problems of Shipowhers, by Tadeunz Trzynski, 5 pp. POLISH, np. Zycie Gospodarczo, No 28, 12 Jul 1964, pl 11, JPRS 25734 Pive-Year Achievements of the Haldex Polish-Hungarian Coal Enterprise, polisii, np. Zycie Cospodarczo, No 28, 12 Jul 1964, p 11.
JPRS 25803 In the Pereground of the Coming Five-Year Plan an Interview With Boleslaw Janzezuk, by Stanisław Chelstowski, Jun Głowczyk, 8 pp. POLISH, np. Zycle Gospodarcze, No 30, 26 Jul 1964, pp 1, 2. JPRS 25951

Eastern Europe Economic (Contd)

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2 Aug 1964, pp 1, 7.
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RUMANIAN, np. Commund Socialist,
14 Jun 1964, pp
JPRS 26154 The Technical Pini a Factor of Progress in the Construction Industry, by A. Auslander, 6 pp. RUMANIAN, np. Constructorul, 9 May 1964, pp 1, 3. JPRS 25855 Riccirotechnical Industry of Rumania a Creation of the People's Regime, by N. Ghita, 1/ pp.
RUMANIAN, per, Electrotchnica, No 1, 2, 1964, pp 3-6. JPRS 26312 Research Activity an Important Pactor in Raining the Technical Level of the Riectrotechnical Industry, by Aurol Avramescu, 47 pp. RUMANIAN, per, <u>Electrotohuica</u>, No 1, 2, 1964, pp 15-26.

JPRS 20092 Reserves for Economizing on Materials in the Machine Construction Industry, by Vastle M. Popescu, RUMANIAN, per, <u>Pinanto at Credit</u>, No 3, 1964, pp 3-13. JPRS 25583 Achievements and Perspectives of the Rumanian Beenomy, by Ion Ravar, 7 pp. RUMANIAN, por, Pinanto al Credit, No 3, 1964, pp 61-65, JPRS 25578 The Observance of Law in the Collection of RUMANIAN, por, Pinante at Credit, No. 3, 1964, pp 73-76.

JPRS 25578 Increase of Deposit Holdings in the Savings Bank System, by Mihati Vieru, 5 pp. RUMANION, 19. Gazeta Finantelor, 15 Jul 1964, pp 1, 8, JPRS 20156 Development of the Rumanian Chemical Industry, by Mihati Florescu, 17 pp.
RUMANIAN, per, Lupia de Clasa, No 4, 1964,
pp 43-56,
JPRS 23448 The Rumanian Mining Industry, by Bujor Almasan, RUMANIAN, per, Lapia do Clasa, Vol XI.IV, No 5, 1964, pp 3-15, JPRS 26072 Investments and Their Reonomic Rifficiency, by Tibertu Horvath, 13 pp.
RUMANIAN, per, Luna de Clasa, Vol XI IV,
No 5, 1904, pp. 30-39,
JPRS 25739 Hydroelectric Power Plants and the National Ronomy, by Octavian Groza, 14 pp. RUMANIAN, per, Lupta do Class, No 6, 1964, pp 13-23. JPRS 25803 Reproduction of the Labor Force, by lon Pacuraru,

RUMANIAN, per, Lupia de Clasa, Vol XIIV, No 7, 1964, pp 3-16. JPRS 20302

The Increase of Labor Productivity in the

Machine Construction Industry,

By Vasile Alexandrescu, 6 pp. RUMANIAN, np, Munca, 21 May 1964, pp 1, 3. JPRS 25782 New Technology in the Inorganic Chemical Industry, by Ion Deleanu, 6 pp. RUMANIAN, np, Munca, Vol XX, 14 Jun 1964, pp 1, 2. Electrification as an Essential for Rumanian Industrialization, by Remus Radulet, 6 pp. RUMANIAN, ny, Munca, 31 Jul 1964, pp 1, 4. JPRS 26008 New Automation Systems for Oil Pipelines, 14 pp. RUMANIAN, per, <u>Petrol at Gaze</u>, Vol XV, No 4, 1964, pp 182-188, JPRS 25939 New Automation Systems for Oil Pipelines II, by A. Cegolea, 13 pp.
RUMANIAN, per, Petrol si Gaze, Vol XV, No 6, 1964, pp 287-264.
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RUMANIAN, per, Probleme Reconomice, Vol XVII,
No 5, 1964, pp 3-17.
JPRS 25869 Better Utilization of Natural Resources in Order to Increase the Economic Potential, by Al. Pulu, RUMANIAN, per, <u>Probleme Economice</u>, Vol XVII, No 5, 1964, pp 18-31.

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RUMANIAN, per, <u>Probleme Economice</u>, No 6,
Jun 1964, pp 50-61.
JPRS 26142 Prosent and Putture Traction Systems of Rumantan Railroads, by M. Stefanescu, 6 pp. RUMANIAN, per, Revista Callor Ferate, Vol XII, No 5, 1964, pp. 260-262. JPRS 25924 The Chlorosoda Products Industry of Rumanit, by S. S. Banciu, 5 pp. RUMANIAN, per, Revista de Chimie, No 5, 1964, pp 299, 300, JPRS 26155 Results Obtained by the CRMA Permanent commission of Agriculture, by I. Fedchanko, 10 pp. RUMANIAN, per, Revista Internationals Pontru Agricultura, No 2, 1964, pp 9-13. CEMA Seminar on Efficiency in Operating and Repairing Tractors and Parm Machinery, by G. Zusamanovich, 9 pp.
RUMANIAN, per, Revima Internationala Pentiu
Agricultura, No 2, 1964, pp 13-17.
JPRS 25712 Methods for Determining the Roon-mical Effective-CRMA, by D. Volodarski, M. Vainer, 11 pp. RUMANIAN, per, Revista Internationala Pontu JPRS 25712

Fastern Europe Economic (Contd)

Contribution of the Institute of Mine Planning to the Development of Mining in Rumania, by Florea Neagu, 11 pp.
RUMANIAN, per, Revista Minelor, No. 5, 6, 1964, pp. 217-222, JPRS 26043

Achievements and Trends in the Designing of Mines, by C. Cenuse, 9 pp. RUMANIAN, per, Revista Minelor, No 5, 6, 1964, pp 223-227.

JPRS 26043

Achievements in the Field of Mine Surface Construction, by D. Soroccanu, 6 pp. RUMANIAN, per, Revista Minelor, No. 5, 6, 1964, pp 228-231, JPRS 26043

Technical Progress in the Potest Economy, by O. Catare, 5 pp. RUMANIAN, per, Revista Padurilor, Vol LXXIX, NO 5, 1964, pp. 225-227. JPRS 20234

The Proportion Between Accumulation and Consumption, by Ion Rayar, Ion Capanu, 13 pp. RUMANIAN, per, Revista de Statistica, Vol XIII, No 5, 1964, pp 3-17.

JPRS 20112

Progress Report on the Borzesti Chemical Combine, by C. Sava, A. Teodoru, 5 pp.
RUMANIAN, np. Rominia Libera, 4 Aug 1964, pp 1, 2, JPRS 26283

Progress Report on the Development of the Rumanian Aluminum Industry, by Ion Margineanu, Stefan Zidarita, 5 pp. RUMANIAN, np. Scintola, Vol XXXIII, No 6272, 30 May 1964, p. 3. JPRS 25448

The Perrous Metals Industry in Full Development, by Ion Marinescu, 5 pp.
RUMANIAN, np. Scintols, No 6338, 4 Aug 1964, pp 1, 3.
JPRS 26643

A Powerful Ferrous Metals Industry, by I, Tripss, 6 pp. RUMANIAN, por, <u>Stituta se Tehnica</u>, No 5, 1964, pp 3-5, 26. JPRS 25448

Industrial Development Raises the Standard of Living, by Simion Taigar, 7 pp. RUMANIAN, per, Vista Economica, No 27, 3 Jul 1964, pp 1, 5, 1 prs 26048

Growth of Labor Productivity in the Mining Industry, by Bujor Almassan, 9 pp. RUMANIAN, per, Viata Economica, No. 30, 24 Jul 1964, pp. 1, 4. JPRS 26283

Trends in Consumption as a Function of Income in Crositan Farm Households Polled in 1961, by Jostp Scaling, 39 pp. SERBIAN, per, Ekonomiski Pregled, No 3-5, 1964, pp 139-172, JPRS 25872

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SKRBIAN, per, Izgradnja, No 4, 1964, pp 2-10, JPRS 25961

The Resolution on the Basic Guidelines for Further Development of the Economic System, 11 pp. SERBIAN, per Medjunarodni Transport, No 6, 1964, pp 382-386, JPRS 20112

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JPRS 25739

Large-Scale Conditions for Rapid and Rational Housing Construction, by Ljubinko Popovic, 7 pp. SERHIAN, per, Socialains i Zdravstvens Politika, Vol XVI, No 3, 4, 1964, pp 14-18. JPRS 25734

On the Credit Relations Between the Yugoslav Investment Bank and Commerical Banks on the Basis of Credit Transfers Handled by the Commercial Banks for the Yugoslav Investment Bank, by Filip Vasic, 12 pp. SERBIAN, por, Yesnik Jugoslovenski Investicione Banke, May 1964, pp 3-6.

JPRS 26256

Investments in the Yugoslav Steel Industry, by Dobrivoje Miskovic, 9 pp. SERBIAN, per, Yesnik Jugoslovenske Investicione Banko, No 5, 1964, pp 6-9. JPRS 26232

The Problems of Private Agricultural Producers, 28 pp.
5ERBOCROATIAN, per, Ekonomika Poljoprivrede, No 4, 1904, pp 3-22.
JPRS 25892

A Concrete and Realistic Approach to the Direction of the Development of the Economically Inadequately Doveloped Parts of Yugoslavia, by Branko Kubovich, 15 pp. SIRBOCROATIAN, per, <u>Ikonomski Pregled</u>, No 6, 1964, pp 315-334.

JPRS 26024

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SERBOCROATIAN, per, <u>Ekonomski Pregled</u>, No 6, 1964, pp 337-351.
JPRS 26204

Yue slav Report on the Reconomic Development of the CRMA-Member Countries, by O. M., 9 pp. SRRBOCROATIAN, per, Gedning! Prested Privrede 22 1963 Goding, I dec, Prested Svetake Konjunkture, May 1964, pp 58-64.

JPRS 26198

The Status and Puture Development of the Construction Materials Industry, by Djordje Markovic, 38 pp. SRRIOCROATIAN, per Izgradnja, Vol XVIII, No. 5, 1904, pp. 13-23, JPRS 26155

Development of the Alliance of Trade Unions of Yugoslavia, 15 pp. SBRHOGROATIAN, per, Jugoslovenski Pregled, No 3, 1964, pp 117-121. JPRS 26294

Production and Consumption of Cement, by R. J. 12 pp. SERHOCRADIAN, per, <u>Jugoslovenski Pregled</u>, No 3, 1964, pp 136-138, JPRS 26232 Eastern Europe Economic (Contd)

Yugoslav Transportation in 1963 With Emphasis on International Transportation, by C. S., 7 pp. SERBOCROATIAN, per, Medjunaredni Transport, Vol X, No 5, 1964, pp. 312-314.

JPRS 23855

The Basic Law on the Election of Workers\*
Councils and Other Departments of
Administration in Enterprises, by Zoran Ceric, 9 pp.
SERBOCROATIAN, per, Nova Administracija,
No 4, 1964, pp 203-209.
JPRS 26112

The Status and Problems of the Inspection Services, by N. Stjepanovic, V. Lemberger, 20 pp. SERBOCROATIAN, per, Nova Administractia, No 4, 1964, pp 209-222.

JPRS 26112

Some Negative Phenomes Accompanying the Introduction of New Measures in Administrative Department, by Zoran Polic, 9 pp. SERHOCROATIAN, per, Nova Administracija, No 4, 1964, pp 223-230, JPRS 20112

The Market Inspectorate in the System of Social Supervision, by Marke Uzelac, 5 pp. SERBOCROATIAN, per, Nova Trgovina, Vol XVII, No 4, 1964, pp. 137, 138, JPRS 25578

Social Control of Prices and of Profit Margins in Commerce, by Rudolf Papist, 7 pp. SERBOCROATIAN, per, Nova Trgovina, Vol XVII, No 4, 1964, pp. 159-161.

JPRS 25578

The Status of the Yugoslav Merchant Marine in 1963, 14 pp. SERBOCROATIAN, per, Pomorstvo, Jun 1963, pp 211-217. 1PRS 25961

Old Piers the Problem of Yugoslav Ports, by J. Ktrincic, 15 pp.
SRRBOGROATIAN, per, Penorstvo, No 4, 1964, pp 110-113.
JPRS 25980
The Electric Power Economy in the Yugoslav Sovon Year Plan, by Simisa Giric, 5 pp.
SERBOGROATIAN, per, Priviedni Pregled, May 1964, p. 3.
JPRS 26072

Expanding the Arable Area on the Socialized Parms, by Stevan Mihailovic, 22 pp. SRRBOGROATIAN, per, Boctjalizam, Vol VII, No b, 1964, pp 749-770, JPRS 26124

Development of Telecommunications in Yugoslavia, by Ostoja Ruvidic, 17 pp. SERBOCROATIAN, per, <u>Tehnika</u>, No 7, 1964, pp 1339-1344, JPRS 26272

Problems in the Inspection Services, by Rajko Gilgorevic, 23 pp. SPRBOCROATIAN, per, <u>Uprava,</u> Vol XI, No V, 10, 1903, pp 297-315, JPRS 25578

The Needs for Chemical Pertilizer and the Basic Directions for Development of the Chemical Pertilizer Industry, 7 pp., SRREOCROATIAN, por, Yesnik Jugoslovenske Investitione Banke, Vol VIII, No 87, Mar 1984, pp 4-8, JPRS 25448

Eastern Europe Political

The Peoples Courts Will be Elected on 31 May, by Bilbil Klosi, 7 pp.
ALBANIAN, per , Drejtesia Populiore, No 2, Mar, Apr 1964, pp 2-6.
JPRS 25513

Albanian Delegate Criticizes Soviet Actions at WFTU Miners Conference in Moscow, May 1964, by Idria Dhrami, 6 pp. ALBANIAN, np. Puna, 16 Jun 1964, p 4. JPRS 25950

Albanian Party Organ Scores Khrushchev Rolations With Vatican, by Hulusi Hako, 21 pp. ALBANIAN, por, <u>Rruga o Partiso</u>, No 6, 1964, pp 61-75. JPRS 25950

The Role of Propaganda Through Lectures in Party Work Among the Manson, by All Banga, 7 pp.
ALBANIAN, per, <u>Rruga e Partise</u>, No 7, 1964, pp 64-70.
JPRS 26271

Docreo on Bulgarian State Secrets, 6 pp. BULGARIAN, por, Curzhavan Yosinik, No 58, Jul 1964, pp 1-2, JPRS 25913

Bulgarian Acadomician Ganovaki Analyzos Philosophical Basis of Chinene Revisionism, by Sava Ganovaki, 23 pp. BULGARIAN, por, <u>Filosofska Misul</u>, Vol XX, No 3, 1964, pp 14-33. JPRS 25902

For Unity in the World Communist Movement and Against the Splitting Activity of the Leadership of the Chinose Communist Party, 14 pp. BULGARIAN, per, Novo Vreme, No. 5, 1964, pp. 3-13, JPRS 25564

Bulgarian Editor Angelov Explains Socialist Revolution to Chinese, by Stefan Angelov, 22 pp. BULGARIAN, per, Novo Vreme, No 7, 1964, pp 34-50. JPRS 26260

Ivan Doney Discusses National Liberation Movement in Bulgarian Communist Party Theoretical Organ, by Ivan Doney, 14 pp. BULGARIAN, por, Novo Vreme, No 7, 1964, pp 51-61.
JPRS 26260

The Development of Intraparty Deniocracy and Collectivism in the Party, by Kiril Ivanov, 11 pp. BULGARIAN, per, Partien Zhivot, No 9, Jul 1964, pp 16-23.

JPRS 26146

Training Without Bureaucratism, by Angel Stamboliev, Ivan Rachov, et al, 10 pp. BULGARIAN, por, Partien Zhivot, Vol VIII, No 10, Jul 1904, pp 59-67 JPRS 26253

Development of the People's Councils as Working Corporation and the Social Public Principle, by Zhikov, K. Milankov, 11 pp. HULJARIAN, per, Prayna Misul, No 2, Mar, Apr 1964, pp 45-55.

JPRS 26111

Bulgarian Party Organ Praises Soviet Achievements, by P. Petrov, 7 pp. BULGARIAN, np. Rabotnichesko Drlo, 1 Jul 1964, pp. 3, 4, JPRS 25711 Eastern Europe Political (Contd)

For Increasing the Leading Role of the Primary Party Organizations in Bulgaria, 5 pp. BULGARIAN, np., Rabonichesko Delo, 3 Jul 1964, p. 2. 1PRS 25859

A Discussion of the Role of Party Committees, by V. Geshakov, 5 pp. BULGARIAN, np. Rabotnichesko Delo, 8 Jul 1964, p 2. JPRS 25859

Bulgacian Party Daily Saya Chinese Impede National Liberation Struggle, by II, Petkov, 7 pp. BULGARIAN, np, Rabot Delo, 24 Jul 1964, pp 3, 4.

The Party Responsibility of Journalists, 16 pp. CZECH, per, Nova Mysl., No 6, 1964, pp 649-658. JPRS 25904

Davists and the Communist Party of Czechoslovakia, by Villam Plovza, 8 pp. CZECH, per, Nova Mysl. No 6, 1964, pp 714-725. JPRS 25904

Czech Communist Party Becretary Lomasok Revelas Errors of Chinese Sectarian Philosophy, by Ladislav Tomasek, 12 pp. CZECH, per, Nova Mysl, No 7, 1964, pp 797-805, JPRS 25902

The Conference on the Slovak National Uprising, by Jospeh Noverny, 11 pp. CZECH, per, Nova Mysl, No 7, 1964, pp 839-843. JPRS 26111

The Case of I, Svitak Consequences and Reasons, by Vladimir Mikovsky, 19pp. CZECH, per, Nova Mysl, No 7, 1964, pp 842-849, JPRS 2111

French Journalist Commonts on Situation in Rumania, by Nicolo Dothoot, 7 pp. FRENCH, por, <u>Franco Observatour</u>, No 7, 1964. pp 8-9, JPRS 25904

W. Leonhard Reviews Effects of Split Throughout World, by Wolfgang Leonhard, 5 pp. GERMAN, np. <u>Arboltor-Zeitung</u>, 23 May 1964, p 3. JPRS 25436

Thorez Surrenders to Rocket, by Martin Saller, 6 pp.
GERMAN, np, Christ and Welt, 29 May 1964, p.7.
JPRS 25436

Do the Gormans Still Understand Each Other, by Friedrich H. Neumann, 5 pp. GERMAN, np. Christ und Welt, No 29, 17 Jul 1964, p 8. JPRS 26146

German Columnist Stroehn: Says Conflict Leads to increasing East European Independence, by Karl Gustaf Stroehm, 5 pp. GERMAN, np. Christ und Welt, No 30, 24 Jul 1964, p 3. JPRS 26058

Bast German Analysis of the Conflict, by Harry Ott, 22 pp. GRRMAN, por, <u>Elinholt</u>, May 1964, pp 59-74. JPRS 28436

Soviet Concepts for Nowly Independent Developing Countries, by John Passche, 13 pp. GERMAN, per, Ostouropa, Vol XIV, No 6, pp 409-421.
JPRS 25484

Eastern Europe Political (Contd)

1

The Opposition Against Ulbricht, by Joseph Scholmer, 6 pp.
GRRMAN, np. Die Zeit, 31 Jul 1964, p 7.
JPRS 26146

Problems Involved in Criminal Investigations in Trail Proceedings, by Alexandru Buus, 6 pp. RUMANIAN, por, <u>Justitia Noua</u>, Vol V, 1964, pp 59-48.
JPRS 25913

The Dual Juridicial Nature of the People<sup>1</sup>s Councils as State Organs and Public Organizations, by Vasile Nicolescu, 13 pp. RUMANIAN, per, <u>Justicia Nova</u>, Jun 1964, pp pp 3, 4. JPRS 20111

Political-Ideological Work in Higher Education, by I. Mitran, 23 pp. RUMANIAN, per, <u>Lupta de Class</u>, Vol XLIV, No 6, 1964, pp 24-39. JPRS 26253

Republic Lovel and Provincial Administrativo Agencies as of 1 March 1964, by P. S., 13 pp. SHRBOCROATIAN, per, Nova Administracija, No 2, 3, 1964, pp 153-162.

JPRS 25564

A Yugoslav Analysis of Leninism, by Muhamed Filipovic, 24 pp. SERBOCROATIAN, por, <u>Progled</u>, Vol XVI (54), No 1, 2, 1964, pp 5-24. JPRS 25501

Yugoslava Disagree With Soviet Theory of All-National Socialist State, by Miodrag B. Stankovic, 26 pp. SERBOCROATIAN, per, <u>Progled</u>, Vol XVI (54), No 1, 2, 1964, pp 51-70. JPRS 2550i

of Yugoslavia Reviewed, by Enver Redzic, 24 pp. SiRuioCROATIAN, per, Progled, Vol XVI, (54), No 5, 1964, pp 201-220, JPRS 25904

Cadro Changes and the Work of the Opstina Committees of the Alliance of Communists of Yugoslavia, 10 pp. SRRIBOCROATIAN, per, Socilalizam, Vol VII, No 5, 1964, pp 640-649, JPRS 25904

Some Concepts and Problems of Inter-Commune Cooperation, by Milan Backo, 16 pp. SBRBOCROATIAN, por, Uprava, Vol XII, No 1, 2, 1964, pp. 47-58, JPRS 26111

The Status and Functions of the KOTAR/SREZ. Administration, by Djuro Gataric, 9 pp. SERBOGROATIAN, per, Uprava, Vol XII, No 1, 2, 1964, pp 59-66.

JPRS 26111

General Functions to be Considered in Blaboration of Communal Statutes, by George Djuric, 1 pp. SERBOCROATIAN, per, Upvava, No 3, 4, Jul 1964, pp 131-136, JPRS 25904

#### Eastern Europe Military

Principles of Rithics of an Officer of the People's Polish Army, 9 pp.
POLISH, np, Zoiniera Woinosci, 21 May 1964, pp 4-12, Ruci No i to ALUSNA, Warsaw.
Navy 5878005264
(DIA)

Regulation on Effectuating the Rights of Disabled War Veterans to Free and Privileged Transportation, 14 pp.
14 pp.
15 SRRBOCROATIAN, per, Sluxbent List SFRJ, No 20, 1964, pp 456-459.
1783 20181

Law on Maritimo Prizos and War Prizos at Sca, 13 pp. SRRIOCROATIAN, por, Sluzioni Lim SPRJ, No 26, 24 Jun 1904, pp 477-481. JPRE 20161

#### Geographic

Characteristics and Methods of Cartographic Representation, by A. Hettner.
GRRMAN, rpt, Annuaire International de Cartographie,
1963, pp 13-31.
ACSI 1-4616-A
1D 2204014864
The Arrangement of Names in Maps, by R. Imhof.
GRRMAN, rpt, Annuaire International de Cartographie,
1963, pp 93-127.
ACSI 1-4616-B
1D 2204014864
The Revision of Maps, by H. Stump
GRRMAN, rpt, Annuaire International de Cartographie,
1963, pp 136-144.
ACSI 1-4016-C
1D 2204014864

#### Sociological

Health in the Service of the People, by Ciril Platoli, 5 pp. ALBANIAN, up. <u>Bashkimi</u>, 25 Jul 1964, pp 1, 2. JPRS 26109

Concerning the Conditional Pstroling of Convicta, by Piro Terpo, Khevdet Bego, 6 pp., ALBANIAN, per, <u>Drejtesia Popultore</u>, No 2, Mar, Apr 1964, pp. 31-35.

JPRS 25513

Albanian Writer Criticizes French Communist Philo-ophy Shuteriui Scores Garandy, Sattre Works, by S. Shuteriqi, 9 pp. A.B.ANIAS, np. <u>Drits</u>, 21 Jun 1964, pp. 3, 4, JPRS 26029

Morality Statistics and the Average Lengthening of the Life Span of Albanians, by Pasko Vako, 5 pp.
ALBANIAN, per, Ekonomia Popullore, No. 3, May, Jun 1964, pp 64-83.

JPRS 26109

Wastern Europe Sociological (Contd)

For the Correct Combining of Social and Personal Interests and Moral and Material Incentives, 10 pp.
Al-BANIAN, per, <u>Kruga e Partise</u>, No 6, 1964, pp 3-11.
JPRS 26109
Educational Cadres the Key to Improvement of Our Schools, by Hamit Begja, 19 pp.
ALBANIAN, per, <u>Rruga e Partise</u>, No 6, 1964, pp 12-25.
JPRS 26109

Let us Emphasize the Role of the Controller and Examiner in Protecting Socialist Property, by Pjeter Kosta, 5 pp. ALBAMAN, np. Zeri i Popullit, 25 Jul 1964, pp 2, 3, JPRS 26109

On the Proper Combining of Material and Moral incentives, by Munit Come, e pp. ALBIANIAN, np. Zeri i Popullit, 29 Jul 1964, pp 2, 3, JPRS 26174

Foreign Language Training Courace, by D. Popov, 5 pp. PUI GARIAN, per, <u>Durzbayen Vestnik</u>, No 60, 31 Jul 1964, pp 3, 4. JPRS 26158

Education During the Years of the Bulgarian People's Government, by Hiya Tachev, 6 pp. BULGARIAN, per, <u>Narrictinik na Agitaiora</u>, No 18, May 1964, pp 3-12. JPRS 26196

Sociological Research on the Spread of Religion in the Bulgarian Population, by Zhivko Oshavkov, 19 pp.
BULGARIAN, per, Novo Vrome, No 5, 1964, pp. 55-70.
JPRS 25518

The Role of the Workers Class in the Construction and the Triumph of Socialism in Bulgaria, by Kossadin Buychinski, 18 pp. BULGARIAN, per, Novo Yreme, No 8, 1964, pp 21-36.

JPRS 26292

The Party and Questions of Literature and Art in Bulgaria, by Venelin Kotsev, 13 pp. BULGARIAN, per, Nove Vreme, No 8, 1964, pp 50-60, JPRS 26292

The Average Longevity of the Bulgarian Population in the Years 1966-1962, by Rayche Dimitrev, 14 pp. BULGARIAN, per, Planovo Stopanstvo 1 Statistica, Vol XIX, No 6, 1964, pp 65-74. JPRS 2607.5

Gapitalist Patent Rights and the Socielist Law of Inventions a Comparison, by Vladimir Vrona, 10 pp.
BULGARIAN, per, Pravda Misul, No 1,
Jan, Peb 1904, pp 89-95.
JPRS 25696

Bulgarian Contemporancity in Literature, by Iv. Vandov, 5 pp. BULGARIAN, np, Rabotnichesko Delo, 5 Jul 1964, p 3. JPRS 26146

Some Questions of Pension Insurance, by Milan Prelic, 13 pp. CROATIAN, per, Socijalna Politika, No 3, 1964, pp. 280-290. JPRS 25538 Fastern Furope Sociological (Contd)

Social and Educational Consequences of Divorce, by Radivoje Jeviic, 11 pp. CROATIAN, per, <u>Socijalna Politika</u>, No 3, 1964, pp 295-304. JPRS 25538

Factors in Joh Accidents, by Ognjan Adum, 6 pp. GROATIAN, per, Socijaina Politika, No 3, 1964, pp. 390-395, JPRS 25538

Size of Dwellings in Czechoslovakia, by Zdenek Jurecek, 9 pp. CZECII, per, <u>Demografie</u>, Vol VI, No 2, 1904, pp 97-102. JPRS 26196

Regional Differences in the Mortality Level of the Czechoslovak Population, by Milan Kucera, 17 pp. CZECH, per, Demogratic, Voi VI, No 2, 19204, pp. 103-115.

JPRS 26196

The Relationship Between the Berth and Mortality Rates of the Czechonlovak Popmation, by Zdenek Vavra, 7 pp. CZBCH, per, <u>Demografie</u>, Vol VI, No 2, 1964, pp 162-166, JPRS 26196

Why Research Public Opinton, 11 pp. CZECH, per, Nova Mysl. No 6, 1964, pp 756-762, JPRS 25904

Automation and People. The Problem of the Human Factor and Adult Education in the Age of Scientific and Technological Revolution, by Gustav Bares, 12 pp. CZECH, per, Nova Mysl, No. 7, 1964, pp. 806-916 JPRS 20111

Problems of Adapting and Unitying Civil Law Matters in the Socialist Countries, by Martin Posch, 19 pp. GRRMAN, per, Sasat and Recht, No 5, 1964, pp 855-872. JPRS 25696

Great Cultural Advance in Poland, by Zygmunt Bielecki, 8 pp. POLISH, per, Nowe Urogi, No.7, 1964, pp 312-317. JPRS 25696

20 Years of Vocational Training, by Michal Godlewski, 7 pp. POLISII, per, Nowo Drogi, No 7, 1964, pp. 319-322, JPRS 23696

Training of Highly Qualified Cadre in People's Poland, by Zygmunt Ratuazniak, 5 pp. POLISH, per, Nowe Drugi, No 7, 1964, pp 322-326, JPRS 25696

Changes in the Educational Pattern of the People, by Michal Charklewicz, 6 pp. POLion, per, Nowe Drogi, No 7, 1964, pp. 326-330, JPRS 25696

We Poles, Sociological Data on Poland, by Zygmunt Szeliga, 12 pp. POLISH, op. Pulliyka, ico 30, 25 Jul 1903, p.7, 4, JPRS 25914 Eastern Europe Sociological (Contd)

Rumanian Education Takes a New Step in Advance by Ion Berca, 5 pp. RUMANIAN, np. Gazeta Invatamintului, Yol XVI, No 763, 24 Jul 1964, pp 1, 4. JPRS 20158

Interpretation of Juridical Norms in the Rumanian People's Republic, by Dumitru Pasalega, 23 pp. RUMANIAN, per, Justitia Noua, No 4, 1964, pp 3-20. JPRS 25518

Medical Care for Mothers and Offspring, by M. Miasir, 6 pp. RUMANIAN, np, Muncitorul Sanitar, 30 May 1964, pp 1, 3. JPRS 25518

Provisions for Temporary Working Disability in Enterprises and Institutions, by Dan Suciu, Ion Petrusca, 9 pp. RUMANIAN, np. <u>Muncitorul Sanitar</u>, 13 Jun 1964, pp 1, 4. JPRS 25518

Cooperation Botween Medical Clinics and Hospital Diagnostic Services, 6 pp. RUMANIAN, np. Muncitoral Sanitar, Vol XVI, No 25, Jun 1964, pp 1, 3. JPRS 25914

Development of Education in the RPR, by Mihati Balteanu, 14 pp.
RUMANIAN, per, Royista de Statistica, Vol XIII, No 6, 1964, pp 34-44.
JPRS 26075

Jurisdiction of Courts in Evaluating the Legality of Dismissals, by Mih Jelicic, 6 pp. SERBIAN, por, Sociajains i Zdravstvena Politika, Vol XVI, No 3, 4, 1964, pp 19-21.

JPRS 25710

Totanua a Health Problem, hy Dosanka Komanovic-Cetkovic, 5 pp. SERBIAN, por, Sociajalna i Zdravstvena Politika, Vol XVI, No 3, 4, 1964, pp 23-26, JPRS 25710

Suspension of Unemployment Componsation Payments During Temporary Inability to Work, by Josip Bolo, 6 pp. Seclataina 1 Zdravstvena Politika, Vol XVI, No 3, 4, 1964, pp 26-30, JPRS 25710

Reform in higher Education, by Djordje Katic, 7 pp.
SRRBIAN, por, Tehnika, No 6, 1964, pp 1003, 1004.
JPRS 25096

Modern Social Processes and Problems of Health Protection, by Ante Jamnicki, Evganij Sherstnev, 22 pp. SERBOCROATIAN, per, <u>Pregled</u>, No 5, 1964, pp 465-479. JPRS 26302

Problem of Professional and Scientific Work in the Field of Primary Schooling, by Ljubomir Krneta, 9 pp. SRRBOCROATIAN, per, Revi ja Skolstva 1 Prosvetna Dokumentacija, No 1, Jan, Peb 1964, pp 5-11.
JPRS 26263

Results of Questionnaire on Professional Qualifications of Agricultural Cadres, by Nada Djekic, 14 pp.
SERBOCROATIAN, per, Revija Skoistva I Prestvetna Dukumentacija, No 1, Jan, Feb 1964, pp 11-20.

JPRS 26263

Eastern Europe Sociological (Contd)

Recommendation on Action to Eliminate Crime, 5 pp. SRBOCROATIAN, per, Sluzbont list 57 RJ. No 23, 3 Jun 1964, pp 435-437. JPRS 25568

Agreement on Social Insurance for Baptist Ministers, 9 pp.
SERBOCROATIAN, per, Sluxbent List SFRJ, inc 23, 3 Jun 1964, pp 444-446.
JPRS 25568

Agreement on Social Insurance for Priests of the Old Catholic Churches, 9 pp. SERBOCROATIAN, per, Sluzbent List SFRJ, No 23, 3 Jun 1964, pp 446-449. JPRS 25568

Agreement on Social Insurance for Performers, 10 pp.
SRRBOCROATIAN, por, Sluzbent List SPRJ.
No 23, 3 Jun 1964, pp 449-451.
JPRS 23568

Some Views on Socioeconomic Developments and Ideological Conceptions in Yugoslav Reality, by Svetozar Vukmanovic-Tempo, 26 pp. SERIBOCROATIAN, per, Socijalizam, Vol VII, No 5, 1964, pp 571-597.

JPRS 25904

The Establishment of Local Societies at Opstina Level, by Boxidar Paja, 18 pp. SERBO GROATIAN, per, Uprava, Vol XII, No 1, 2, 1964, pp 32-46.

JPRS 26111

#### WESTERN EUROPE

#### Economic

Our Renewed Preight Car Stock: Structure and Purpose, 5 pp. FINNISH, per, Rautaticilikenne, No 3, 1964, pp 120-126, English OUSARMA, Helsinki, Pinland. 10 2831011364 (DIA)

West German Views on the Rast German Recognite Crisis, by C. Thatheim, Bruno Gleitze, 13 pp. GRRMAN, np. Die Welt, 10 Jul 1964, p.6. JPRS 25869

#### Political.

Secretary General of Poutuguese Communist Party Interviewed, by Alvaro Cunhal, 5 pp. FRENCH, np. Alger Republicate, 12 Jun 1964, pp 7, 8. JPRS 25484 Western Europe Political (Contd)

Six French Communist and Socialists Debate Unity, 17 pp. FRENCH, per, in Debat Communists. No 29, 15 Jul, 15 Aug 1964, pp 6-13. JPRS 26029

Central Committee Explains Recent Purges, 5 pp.
FRENCH, per, L\*Etincelle, No 7, 1964, pp 1-3, pp. 1983 26286

Ellimer Speculates on Future of French Communist Party Leadership, by David Ellimer, 6 pp. FRENCH, np. Franco Observateur, No 742, 23 Jul 1964, pp 4, 6. JPRS 26029

Trotskylte M.Leuwen Scores Bourdet and Pay Views, by M. Leuwen, 5 pp. FRRNCH, per, L. Internationale, No 23, Jun 1964, pp 2, 3, JPRS 26260

Trotskylte Monthly Scores Anti-Trotsky Stand of Fro Chinese Organ, Revolution, by M. I.euwon, 6 pp. FRENCH, per, Linternationale, No 24, Jul, Aug 1964, pp 2, 3. JPRS 26182

French Communist Party 17th Congress and Thorez Ladership, 6 pp. FRENCH, per, Quarrieme Internationale, No 22, Jul 1964, pp 4-49.

JPRS 26260

A Trotskylte Applyzos the Conflict.

A Trotakylto Analyzos the Conflict, by R. Germain, 33 pp. FRRNCII, per, Quarrieme Internationale, No 22, Jul 1964, pp 12-29. JPRS 26260

Philosopher Joseph Gabel Discusses Alienation, by Joseph Gabel, 14 pp. FRENCH, ps., Socialisme ou Barbarie, No 37, Jul-Sep 1964, pp 34-64. JPRS 25711

Rotterdam Dissidents Accuse Netherlands Communist Party of Revisionism in Article in Belgian Pro-Chinese Organ, 8 pp. FRENCH, np. <u>La Voix du Peuple</u>, No 31, 31 Jul 1964, pp 11-14. JPRS 26182

Swiss Independent View of Moscow's Position, 6 pp.

GRRMAN, mp. Naue Zuercher Zeitung.

Jul 1964.

JPRS 25501

Swiss Daily Comments on CPSU Letter to Chinese Urging World Communiat Conference, by V. M., 16 pp. GRRMAN, np. Noue Zuercher Zeltung, 18 Jul 1964, p.2. JPRS 25002

Austrian Communist Party Scores Chineso, Favors Conference, by Johann Koplenig, 5 pp. GERMAN, np, Die Volkstumme, 27 Jun 1964, p 3.

JPFS 25484
Austrian Communist Party Spokesman Marek on USSR and Communist Solidarity, by Franz Marek, 7 pp.

GERMAN, per, Weg und Ziel, No 6, 1964, pp 357-362,

JPRS 25800

Western Europe Political (Contd)

Zaccaria Discusses Communist Membership in Purges in Bologna, by Guelfo Zaccaria, 8 pp. ITALIAN, per, Corrispondenza Socialista, Vol V, No 6, 1964, pp 286-289, JPRS 25800

Anti-Communist Review Discredits Togliatti Story on 1926 Letter From Gramsoi to Russian Politburo, by Antonio D'Ambrosto, 7 pp. ITALIAN, per, Corrispondenza Socialista, Vol V, No 6, 1964, pp. 300-303. JPRS 25800

Marxist Economic Thought and the Present an Analysis by Italian Socialist Antonio Landolfi, by Antonio Landolfi, 40 pp. ITALIAN, per, Mondo Onerato, Vol XVII, No 4, 1964, pp 26-33; Vol XVII, No 5, 1964, pp 14-26, JPRS 25840

Express Views on Unity and Dissidence, by Mario Paparazzo, 6 pp. ITALIAN, per, Nuova Unita, No 6, 1964, pp 1, 2. JPRS 25500

Gramsci-Togliatti Lotters of 1926 Aired, by Togliatti, 12 pp. ITALIAN, np. <u>Rinascita</u>, 30 May 1964, pp 16-20. JPRS 25484

Italian Communists Discuss Lenin Theory of State, by Luciano Gruppi, 10 pp. ITALIAN, np. Rinascita. No 30, 25 Jul 1964, pp 27, 28. JPRS 25950

Rome Weekly Reviews Zaccaria Book on Italian Victims of Stalliniam, 8 pp. ITALLAN, np. L\*Umanita, 15 Jul 1964, p 5. JPRS 25500

Norwegian Communist Party Position Paper Vogt<sup>†</sup>s Report to April 1964 National Conference, by Jorgen Vogt<sup>†</sup>s, 17 pp. NORWEGIAN, np. Priheten, 14-20 Jul 1964, JPRS 26029

Spanish Communist Party Scores Chinese Activities, 5 pp. SPANISH, np. <u>Mundo Obreto</u>, No 8, 16-30 Apr 1964, pp 1, 2. JPRS 25436

Belgian Manident Grippa Expounds Chinese Views, Excerpts From Speech in Tirans, by Jacques Grippa, 6 pp. ALBANIAN, np. Bashkimi, 7 Aug 1964, pp 1, 3. JPRS 26286

Swedish Communist Party Study Group in Yugoslavia Discusses Swedish CP Operations, 5 pp. CROATIAN, np. Komunist. 9 Jul 1964, p 2. JPRS 25711

Danish Laily Publishes Sneering Review of Chinese Brochure, "Long Live Lenintsm;" Just Published in Denmark, by Peter P. Rolde, 5 pp. DANISH, np. information, 27 Jul 1964, p. 4. JPRS 26058

Communist Party Organ Hits Dissident Activities of Groth, Appel, Scocczza, 7 pp. DANISH, np. Land og Folk, 28 Jul 1964, p 2. JPRS 20182

De Vries Expands Criticism of Pro-Chinese and De Rode Vlag, by J, de Vries, 7 pp. DUTCII p. De Brug, No 17, k3 Jun 1964, pp 4-6, JPRS 25800

#### AFRICA

Western Europe Political (Contd)

Finnish Communist Party Chief Pessi Scores Chinese, Asks Unity, by Ville Pessi, 6 pp. FINNISI, np. Kansan Uutiset, 19 Jul 1964, p 5. JPRS 25840

Finnish Communist Discusses Coexistence, National Liberation, and Chinese Diffsidence, by Mirjam Vire-Tuominen, 31 pp. FINNISH, np, Kansan Uutiset, 30 Jul 1964, p 4, JPRS 26286

Disaldents Discuss Point 1 of Joint Declaration on PCF Renewal, 5 pp. FRENCH, per, 1e Debat Communiste, No 28, 15 Jun 1964, pp 8, 9. JPRS 26029

Jean Chaintron Makes Plea for Communist-Socialist Unity, 9 pp. PRENCH, per, Le Debat Communiste, No 29, 15 Jul, 15 Aug 1964, pp 2-5, JPRS 26029

Claude Harmel Analyzes Soviet Folicy on Neutrality, by Claude Harmel, 6 pp. FRENCH, per, Est of Queel, No 324, 1-15 Jul 1964, pp 1-4. JPRS 25840

Prench-Italian Communist Party Hostility Renewed, 5 pp.
PRENCH, por, Est & Quest, No 325, Jul 1964, pp 9-11.
JPRS 25902

Public Opinion Poil Shows Prench no Longer Foar Communists, by Jean Forniot, 5 pp. FRENCH, np. L\*Express, No 683, 16 Jul 1964, pp 6, 7. JPRS 26029

Attempts of URC to Form a Little Party Criticized, by Jacques Chambaz, 11 pp. FRENCH, per, France Nouvelle, No 974, 17-23 Jun 1964, pp 5-7. JPRS 25484

#### Military

The Air Force and the Atom, by Jean Planchais, 5 pp. FRENCH, np. La Monde, 15 Jul 1964, pp 1, 2, JPRS 26022

Plane or Weapon, by Jean Planchais, 6 pp. PRENCH, np. Le Monde, 16 Jul 1964, p 5. JPRS 26022

#### F.conomic

Annual Report of the Board of Directors of the Tunisian Bank Company, 11 pp. ARABIC np. Al-1Amai, 1 Jul 1954, p 4 (Part 1), 2 Jul 1964, p 4 (Part II). JPRS 25837

Unctad and the Question of Ald by Socialist Countries to the Underdeveloped Countries, by Mamagou Barry, 13 pp.
FRENCH, per, Afrique Nouvelle, 3-9 Jul 1964, pp 8, 9, 16.
JPRS 25664

For a Rural Development Structure, by J. Dez, 16 pp. PRENCH, np. <u>Bulletin de Madagasicar</u>, No 217, Jun 1964, pp 415-429. JPRS 26141

After the Reinstatement of the President of Gabon, Leon MBA Should we Replace the Men or Change the System and Mentality, by Robert Taton, 7 pp.
FRENCH, per, Burope France Outromer, Vol XII, No 410, Mar 1964, pp 12-14.
JPRS 25466

In Ten or Fificen Years, Gabon Can Really Emerge From Underdeveloped, by Andre Gustav, 6 pp. FRENCII, por, Europe France Outremer, Vol XLI, No 410, Mar 1964, pp 15-19. JPRS 25466

The Economy and Production of Gahon in 1903, by Paul Gondjout, 10 pp. PRENCH, per, <u>Europe France Outremer</u>, Vol XII, No 410, Mar 1964, pp 20-24.
JPRS 23466

Gabon's Interim Development Program and the Working Out of a Genuine Development Plan, by Your Corvalision, 5 pp. FRENCH, per, Rurope Franco Outremer. Vol XL1, No 410, Mar 1964, pp 25-27.

JPRS 25466

Oil With the First Off-Shore Deposit a New Hope for Oil has Appeared in Gallon, by Gorard Chacun, 6 pp. PRENCH, per, <u>Europe Prance Outromer</u>, Vol XII, No 410, May 1964, pp 41-43. JPRS 25406

Ricciricity the Present Situation and the Hydroelectric Projects Under Study, by R. Braquaval, 11 pp. PRENCH, per, <u>Burope Prance Outremer</u>, Vol XII, No 410, Mar 1964, pp 51-55.
JPRS 25460

The Road Program, by Marcel Sandoungout, 6 pp. PRENCH, per, Rurope Prance Outremer, Vol XII, No 410, Mar 1964, pp 56, 57, JPRS 25466

The Trans-Cameroonese Rattroad and its Ritensions, by Paul Dirroult, 6 pp. PRRNCH, per Rurope-France Outremer, No 412, May 1904, pp 46-48.

JPRS 26027

Development of the Senegal River Basin, by M., Sock, 6 pp. FRENCH, per, <u>Burope France Outremer</u>, No 412, May 1954, pp. 50-52. JPRS 26027

#### Africa Economics (Contd)

Automobiles Assembled in Morocco Accumulate on Less Active Market, by Jean Letellier, 5 pp. FRENCH, np, Maroc-informations, No 1090, 27, 27 Jul 1964, p 2. JPRS 20299

Senegal on Austority Course, by Philippe Decraene, 13 pp.
FRENCH, per, Lo Monde, 28 Jul 1904, pp 1, 5;
29 Jul, p 5; 38 Jul, p 4.
JPRS 26127

The Israeli Program of Technical Aid for Africa, by Amos Ben-Vered, 5 pp. FRENCH, per, L'Observateur au Moyen-Orient et de l'Afrique, Vol VIII, No 30, 24 Jul 1964, pp 8, 9. JPRS 26248

Self-Management is Transforming Our Parma, by Malek Chabane, 14 pp.
PRENCH, np. Lo Pouplo, 20 May 1964, p 3;
21 May 1964, p 6; 22 May 1964, p 2; 25 May 1964, p 2; 27 May 1964, p 2; 29 May 1964, p 2;
1 Jun 1964, p 2.
JPRS 25186

The Status of the Recuperation of Colonized Land, by Yaya Ben Slimane, 8 pp. PRENCH, np, Les Pharos, No 137, 18 Apr 1964, pp 8, 9.
JPRS 25486

The Industrialization of Morocce and the Bureau of Smides and Industrial Participation, by Abdolkador Benalimane, 6 pp. FRENCH, np, Les Phares, No 140, 5 May 1964, pp 8-10. JPRS 25486

Pinancial Institutions of the STB-Credit, Currency and Prices, 5 pp. FRENCH, np. La Presse de Tuniste, 8 Jul 1964, p 3, JPRS 26243

STB Activity Expanded, 5 pp. FRENCH, np. La Preuse de Turiste. 9 Jul 1964, p 2. JPRS 26248

Moroccan Water Supply, 9 pp.
FRENCH, por, La Vio Reonomique, No 9, 1963, pp 279, 379, 479, 579, 679, 779, 879,979, Encl to OUSARMA, Rabat, Morocco.
ID 2865010964
(DIA)

Interview With Director General of Phosphates Board, 13 pp. PRBNCH, np. <u>La Vio Reonomique</u>, No 2,208, 10 Jul 1964, pp 3, 4. JPRS 26248

Brief Note on the Social Action Plan for Labor in Angola, by Antunes Valento, 7 pp. PORTUGURSE, Per, Portugal em Africa, Vol XX, No 120, Nov, Dec 1963, pp 349-356, JPRS 26248

#### Political

The Class Nature of the States of Tropical Africa, by N. S. Merzlyakov, 15 pp.
BULGARIAN, per, Pravna Misul, No 2,
Mar, Apr 1904, pp 30-44.
JPRS 26027

#### Africa Political (Contd)

New Doctrine of the Labor Services and Social Laws of Senegal, 7 pp. FRENCH, rpt, to Sep 1960, pp 1-6. JPRS 25949

Debate on the Prospects of the Counter-Revolution in Africa, 13 pp. FRBNCH, per <u>Democratic Nouvelle</u>, No 7, 8, 1964, pp 15-22. JPRS 25940

Government Control of Information Defended, by Mamadou Gologo, 5 pp. FRENCH, np, L'Essor Hebdomadzire, 3 Aug 1904, p. 3. JPRS 26175

A New Congo in Three Months, by Albert Kaninda, 6 pp. FRENCH, np. <u>btode da Congo</u>, 3 Ao<sub>K</sub> 1264, p. 3. JPRS 25949

Chinese Pressure in the Congo Soumialet is Lenin With the Troops of du Gueselin, by Yves-Guy Berges, 7 pp. FRENCH, np. I Texpress, 22 Aug 1964, pp 9, 10, JPRS 20248

Congo a Jignaw-Puzzle of Insurrection, 5 pp. PRENCII, up. France Observatour, No 744, to Aug 1964, p 9, JPRS 26248

Constituent Congress of the Union of Iverian Students, 5 pp.
PRENCH, up, <u>Fraternite</u>, 24 Jul 1964, p.9.
JPRS 25949

African Press Comment on Tshombe's Return to Power, by Ken, Jean Benoft, et al, 8 pp. FRBNCH, nps. Horoya, 12, 13 Jul 1964, pp 1, 3; Revolution Africaine, 11 Jul 1964, pp 12, 13 JPRS 28790

Black Africa at the Intaing Point of Ita Destiny, by Jacques Arnault, 16 pp. FRENCH, np. Lilianianite, 25 Jun 1984, p. 2; 27 Jun 1964, p. 2; 29 Jun 1984 p. 2, JPRS 25870

Address by the King at the OAU Summit Conference in Catro, 9 pp. PRINCH, np. Intor-Hurundi, No 122, 3 Aug 1964, pp 3, 8 JPRS 26248

The Tunisian Way to Socialism II. The Limitation of Agrarie.: Reform, by J., Bon Brahem, 5 pp. FRRNCII, np. 1c. Monde, Vol. XXI, No. 608.3, 6 Aug. 1961, p. 4.

JPRS 26299

The Struggle of Portuguese Guinea, by Gerard Chalfand, 12 pp. PRENCH, per, Partisans, No 16, Jun-Aug 1964, pp 45-51. JPRS 25775

Algeria and the First FLN Congress, by Livio Mattan, 14 pp. FRENCH, np. Quatrieme internationale, No 24, Jul 1964, pp 30-38, JPRS 26127

The Crimin of Angolan Nationalism, by Mario de Anrade, 11 pp. PRENCH, np. Revolution Africaine, No. 74, 27 Jun 1904, pp. 12-14. JPRS 25837 Africa Political (Contd)

Report on Visit to Cabinda Guerrillas. by Mohamed Alassoui, 6 pp. FRENCH, np. Revolution Africaine, No 78, 25 Jul 1964, pp 12-15.
JPRS 26175 The Second MJUPS Congress in Saint Louis, by Alcino L. Da Costa, 5 pp. FRENCH, per, Senegal d'Aujourd'hui, No 7, Apr 1964, pp 9-11.
JPRS 25799 Algeria in Third Year of Independence, 7 pp. FRENCH, por, Sous le Drapeau du Socialisme, No 7, 8, 1964, pp 1-3.
JPRS 25949 For a Resurgence of the South African Revolution, by D. Anderson, 7 pp. FRENCH, per, Soun le Drapeau du Socialisme, No 7, 8, 1904, pp 5-8. JPRS 25775 Continuation of the Work of the Seminar, 8 pp. PRENCII, up, Le Temps du Niger, No 1,259, 29 Jul 1964, pp 2-9. JPRS 26200 The Work of the Seminar of the Nigerian Cadres, 7 pp.
PRENCH, np, Lo Temps Du Niger, No 1,260,
30 Jul 1964, pp Z 8.
JPRS 26200 Fourth Session of the Seminar of the Nigorian Cadros, 5 pp. FRENCH, np. <u>Lo Temps Du Niger</u>, No 1,261, 21 Jul 1964, pp 2-5. JPRS 26200 President Diori's Mossage to the Nation on the Occasion of the Fourth Anniversary of Nigor's Independence, 6 pp. FRENCH, np. Lo Temps Du Niger, No 1,263, 4 Aug 1964, pp 2-6. JPRS 26200 Current Problems of Black Africa, by J. M. da Silva, 12 pp.
12 pp.
PORTUGUESE, per, Portugal om Africa, Vol XXI,
No 122, Mar, Apr 1964, pp 103-114.
JPRS 26175

#### Geographic

Pacts About Little Known Soychelles, by J. M., 5 pp.
PRENCH, np. Le Courrier de Madagascar,
27 Jun 1964, pp. 1, 7.
JPRS 25486
Cartography in the Congo Brazzaville, Notes on the Transliteration of Place Names, by Andre Jacquot, 10, pp.
PRENCH, per, Nouvelles de PIRCS, No 10, May 1964, pp. 27-38.
JPRS 25967
Goyel Portnerly St. Cloud, Village of the Future, 5 pp.
PRENCH, np. La Republique, 12 Jun 1964, p. 6.
JPRS 25486

#### Africa Sociological

The Senegales Labor Tribunals, by Charles F. Brun. 55 pp. /RENCH, rpt, Dakar, 28 May 1964, pp 1-36, JPRS 26141 Mamvu-Mangutu and Balese-Mvuba, By H. van Geluwe, 105 pp. FRENCH, mono, Ethnographic Survey of Africa, London, 1957, pp. 7-10, 18-20, 25-49, 53-63, 67-76, 79, 81-83, 95, 96, 99-104, 113-137, 141-152, 155-161, 165-168, 1910 2 38480 JPRS 25480 The Ba-Kuba Tribes and Related Clans, by J. Vansins, 47 pp. FRENCH, mone, Sciences de l'Homme - Monographies Ethnographiques, Vol I, Tarvuren, Relgium, 1954, pp 3-6, 10-34, 35-49, 50, 51, 53-56. JPRS 258. The Foulant, by Amadou Hampate Ba, 6 pp. PRENCH, per, Afrique, No 34, May 1964, pp 26, 27, 1PRS 25480 The Ewes, by N<sup>2</sup>Sougan Aghlemagnon, 6 pp. PRENCH, per, <u>Afrique</u>, No 34, May 1964, pp 28, 29, JPRS 25480 Congolese Trade-Union Activities, 5 pp. PRENCH, np. L. Btoile du Congo, 7 Aug 1964, p 7. JPRS 26248 Annotated List of 21 Provincial Congo Newspapera, Amounted Line of 21 Provincial Congo Net by J.C.W., 16 pp. FRRNCH, por, <u>Bludes Congolates</u>, No 6, Jun, Jul 1964, pp 98-110. JPRS 25799 Problems of African Intellectuals in Portuguese Africa, by Virgillo do Lemos, 5 pp. FRENCH, np. La Prosse du Cameroun, 18 Aug 1964, p 2. JPRS 26299 Myumba Interviewed on the OAU Conterence Vis-A-Vis the African Refugee Problem, by Jules Chome, M. Myumba, 5 pp. PRBNCH, per, Remarques Africaines, Vol VI, No 14, 11 Jul 1964, pp. 321, 322.

JPRS 26027 Former Leader of UGRC Interviewed, 6 pp. PRINCH, per, <u>Remarques Consulatives Africaines</u>, No 8, 1964, pp. 176-178. JPRS 25870 History of the National Unionof Barundt Students, PRINCIP DE NAME WEEP, 9 pp.
PRINCIP DE REMETEURS CONSOLUTES AFTICAIRES,
NO 8, 1964, pp. 184-188,
JPRS 25840 Preparations for the African Games in Brazzavile in March 1963, by Fulbert Kimina-Makumbu, 5 pp. PRBNCH, np. La Semaine Africaine, No 611, 17 May 1964, pp 7, 5. JPES 25480 The Development of Rural Groupings in Merocco, 6 pp. FRENCH, np. La Vie Economique, No 2212, 7 Aux 1964, pp 1, 3. JPRS 26299

#### MIDDLE EAST

#### Economic

New 40 Million Guinea Iron Rolling Plant Added to Steel Complex, 6 pp. ARABIC, np, al-Ahram, 22 Jul 1961, p 5. JPRS 26291

How the Revolution has Brought About an Increase in the Peasant's Income Nine Basic Principles Laid Down for Agricultural Policy Which Made it Possible to Raise the Farmera' Standard of Living, by Ahmad Hamid An-Nashrati, 8 pp. ARABIC, np, Al-Ahram, 23 Jul 1964, pp 18, 20, 24, 29, JPRS 26197

The Pensions Scheme to Cover Independent Trades and the Self-Employed Pensions Minimum to be Based on the Amount Ensuring a Decent I ivelihood Pensions to Be Extended to Agricultural Workers, Who Represent 58 Per Cent of Producers, 10 pp.

ARABIC np., Al-Ahram, 23 Jul 1964, pp 26, 29, JPRS 26197

#### Political

Political and economic Ampects of Arab Oli Hattle, by And-Alah at-Turaid, 39 pp. ARABIC, np. al-Ahram, 8-11 Aug 1964, p 8. JPRS 26133

Israell Arab Communists Score Chinese Dissidence, 6 pp. ARABIC, np. al-Ittlaad, 24 Jul 1964, p 3. JPRS 26260

The Constitution of the Arab Socialist Union in Iraq, 13 pp. ARABIC, np. Al-Jumburiyya, 15 Jul 1964, pp 12-18. JPRS 26197

Dr. Khair Ad-Din Hasib Speaks About the Socialist Decrees and th Nationalized Firms, 6 pp. ARABIC, np. Al-Jumburiyya, 26 Jul 1964, p 5. JPRS 26197

Israelt Communist Party Central Committee July Plenum Discusses Khrushchev Visit to UAR, Labor Unity, World Communist Conference, 9 pp. IIBBRW, np. Kol Haam, 19 Jul 1964, pp 2, 3. JPRS 26029

#### Sociological

Six Young University Instructors Discuss
Do Young Scientists and Intellectuals in Israel
Closet The melves into Ivory Towers Detached
From Public and Social Life, 14 pp.
HEBREW, np. Davar, 24 Jul 1964, pp 16-19.
JPRS 26197

Middle East Sociological (Contd)

Why Scientists Leave the Country, by Shani Katz, 9 pp.

HEBREW, np, Davar Hashavus, 10 Jul 1964, pp 3-5.

JPRS 26197

Manpower Shortago Will Affect Development Plans, 5 pp.

HEBREW, np, Hasrots, 1 Jul 1964, p 10.

JPRS 26197

Surplus or Shortago of Physicians, by Shalom Graik, 7 pp.

HEBREW, np, Lamerhay, 6 Jul 1964, p 3.

JPRS 26197

FAR EAST

#### Economic

The Current Tank of Supply and Marketing Cooperatives, by I lang Vac, 7 pp.
CHINESE, rpt, No 2, 18 Feb 1964.
JPRS 25948
Further Economy of Labor Power,
by Wang Kao, 5 pp.
CHINESE, rpt, No 9, 18 Sep 1963.
JPRS 25948
Hangchow Travel Handbook. (SP-3337)
CHINESE, mono, Chekiang Jen-min Chiu-pan-ahe,
Feb 64, 106 pp.
\*\*JPRS
Learn From the Liberation Army and Stirup a Now High Tide of Productive Construction,
by Li Han-wei, Ii pp.
CHINESE, pur, Chilao-wu Pao, No 2, Apr 1964,
pp 17-19.
JPRS 25346
Revolutionization of Ideology and Development
of Production, by Ho Chiling-Jul, Ma Ching-yuan,

Revolutionization of Ideology and Development of Production, by Ho Ching-jui, Ma Ching-yuan, 10 pp. CHINESE, per, <u>Chiao-wu Pao</u>, No 2, Apr 1964, pp 20-22. JPRS 25546

The Rapidly Developing Economy of Vietnam Guided by the Policy of Self-Raliance, by Liang Ming, 5 pp. CHINESE, per, Ching-chi Tao-pao, No 855, 1964, pp 16, 17. JPRS 25561

A Good Norm Official Who Operates St. ictly According to Policy, by Pu Sheng, 5 pp. CHINESE, per, <u>Lao-tung</u>, No 5, 1963, pp 22-24, JPRS 25795

A Short Review of the General Aspects of Metallurgical Heat Treatment of Prospects for the Future, by Chou Chi-hung, 15 pp. CHINESE, per, Shanghai Chi-chich, No 3, 1964, pp 1-6.
JPKS 25901

Problems Related to the Development and Improvement of Heat Treatment Furnaces, by Chiu Chi, 11 pp. CHINRSE, per, Shanghai Chi-chieh, No 3, 1964, pp 7-10. JPRS 25901

Chinese Deny Material Incentive as Factor in Building Socialism, 9 pp. GERMAN, per, Die Arbeit, No 6, 1964, pp 27-31. JPRS 25436 Far East Economics (Contd)

Indonesia's Present Economic System and the Solution to the Economic Question, by D. N. Aidit, 30 pp.
INDONESIAN, np. Harian Rakjat, 10 Jul 1964, p 3, 4; 11 Jul 1964, pp 3, 4; 11 Jul 1964, pp 3, 4.

Great Success Achieved by Communists in the Four Year Plan and Elimination of all Weaknesses, by Djokosuajono, 9 pp. INDONESIAN, np, Harlan Rakjat, 13 Jul 1964, p 3, IPRS 26313

For Improving the Work in the National Unified Pront, by M. H. Lukman, 15 pp. INDONESIAN, np. <u>Harian Rakiat</u>, 14 Jul 1964, p 3. JPRS 26313

1963 North Korean Central Yearbook, 312 pp. KORHAN, bk, 1963 Choson Chlungang Nyongam, Plyongyang, 25 Dec 1963, pp 101-104, 153, 154, 167-240, 250-252, 323-362. JPRS 26186

An Rpoch-Making Change in Financial Management. 6 pp. KORBAN, per, Chaolong Kymyung, No 5, 1964, pp 2-5, JPRS 25923

The Role and Function of Banks in Socialist Construction, by Han Sang-tu, 8 pp. KORBAN, por, Chaolong Kumyung, No 5, 1964, pp 6-11. JPRS 25923

Vor the Establishment of a Scientific System on Fisheries, 12 pp. KOREAN, por, <u>Choson Susan</u>, No 104, 1964, pp 3-8, JPRS 26097

The State Budget and Aid From the Lakor Class to the Farms, by Ch<sup>4</sup>oe Yun-su, 12 pp. KOREAN, per, <u>Kulloja</u>, No 9, 5 May 1964, pp 8-14.

JPRS 26298

Production Experience at the Advanced Industrial Manufacturing Concerns, by Ham Hyong-suk, 6 pp. KOREAN, per, Kulloja, No 247, May 1964, pp 36-41. JPRS 36098

Two-Crop Method and Crop Selection, by Kim Chin-myun, 5 pp. KORKAN, np. Minlu Chosun, 2 Jul 1964, p 2. JPRS 26298

The Relationship Between an Economic Control System and Socialist Construction, h by Kim Chong-wan, 10 pp. KORRAN, np. Minju Chosun, 23 Jul 1964, pp 2, 3. JPRS 26298

The Rational Utilization of Labor, by Mun Chi-su, 6 pp. KOREAN, np. Nodong Sinmun, 2 Jun 1964, p 2. JPRS 25923

The Economic Significance of Vegetable Oils and Fats, by Kim Tong-guk, 7 pp.
KORRAN, np. Nodong Sinmun, 28 Jun 1964, p 2.
JPRS 23778

To Pulfill the Two-Crop Policy of the Party, by Yun Hyong-sik, 5 pp.
KORBAN, np, Nodong Sinmun, 13 Jul 1964, p 2.
JPRS 26298

How to Plan the Major Products of Livestock Breeding Economy, by B. Monkhoo, 7 pp. MONGOLIAN, per, Eddyn Dzanag, Erkhlyn Asundal, No 2, 1964, pp 16-20, JPRS 26230 Far East Economics (Contd)

The Auto Transport Plan Should be Directed Toward Meeting the Demand of Transportations of the National Economy, by T. Namjim, 6 pp. MONGOLIAN, per, Edlyn Dzassg, Erkhiyn Assudai, No 2, 1964, pp 21-24.

JPRS 26230

A Brief Report on the Adjustment of the Wage System of the Auto Transport Workers, by I, V, Kosai, 6 pp. MONGOLJAN, per, Edlyn Dzassag, Erkhlyn Asuudal, No 2, 1964, pp 72-76. JPRS 26230

Labor Code of the Mongolian People<sup>†</sup>s Republic, 53 pp. MONGOLIAN, np. <u>Unen</u>, 30 Apr 1964, pp 2-8, JPRS 25441

lientain General Economic Situation, 13 pp. RUSSAN, bk, Tyan<sup>5</sup>tazin, Muscow, 1960, pp 53-72, JPRS 26161

Resolution of the General Pederation of Labor for the Campaign of Everyone Does the Work of Two, 5 ps. VIETNAMESE, np. Lao Dong, No 1367, 16 May 1964, pp 1, 3, JPRS 25481

Strengthen and Consolidate Laior Unions, by But Thuy, 8 pp. VIRTNAMESH, np. Lao Dong, 9 Jun 1964, p 2; Il Jun 1964, p 2. JPRS 25888

Resolution of Vietnam General Confederation of Labor Presidium, 15 pp. VIRTNAMESE, np. <u>Lao Dong.</u> 4 Jul 1964, p 3. JPRS 26314

Resentials of the State Plan for 1904, by Nguyen Duy Trinh, 9 pp. VIKTNAMESE, per, <u>Nation Cuu Kinh Te.</u> No 21, Jun 1906, pp 3-5. JPRS 20109

The Position of the Forest Products Industry and Measures to Strengthen its Trade, by Hoang Dion, 18 pp. VIBTNAMESE, por, Nghien Cou Kilm Te, No 21, Jun 1964, pp. 32-40.

JPRS 26102

Successful Meeting of Advanced Agricultural Gooperatives and Production Teams in the Midland and Highland, by Quang Thanh, 24 pp. VIETNAMESE, por, Nghien Guu Kinh Te, No 21, Jun 1904, pp 72-79 JPRS 26088

Land Exchange and Reapportionment in Nghe An, by Pham Thiom, I van Xuan Thuyen, 6 pp. VIRTNAMESE, per, Nghion Quu Kinh Te, No 21, Jun 1964, pp 79, 80, JPRS 26088
Successful Completion of Husiness Administration

Successful Completion of Husiness Administration II., by Le Thanh Nghi, 7 pp. VIETNAMESE, np, Nhan Dan, No 3702, 20 May 1964, p. 3. JPRS 25773

Successful Completion of Husiness Administration II., by Le Thanh Nghi, 8 pp. VIRTNAMESE, np. Nian Dan, No 3704, 21 May 1904, p 3. JPRS 25773

Ha Bac Nitrogenous Plant, by Le Van Quy, 5 pp. VIRTNAMESE, np, Niso Dan, 31 May 1964. Far East Economics (Contd)

Vietnamese Labor Delegation Visits Albania, by Tran Danh Tuyen, 8 pp. VIETNAMESE, np. Nhan Dan, No 3719, 3720, 5, 6 Jun 1964, pp 2, 3. JPRS 25439

Rightist Tondoncies and Lack of Unity Damaged the Tan Lieu Cooperative, by Nguyen Van Tau, 5 pp.
VIETNAMESE, np., Nhan Dan, No 3720, 6 Jun 1964, p 2.
JPRS 25439

Hal Phong Efforts to Increase Production, by To Thien, 5 pp. VIETNAMESE, np. Nhan Dan, 9 Jun 1964, p 3. JPRS 25585

Measures to Solve the Food Problem, hy Le Viet Luong, 10 pp. VIETNAMESE, np. Nhan Dan, 24 Jun 1904; 25 Jun 1964, p 2. JPRS 25585

Production Difficulties in a Cement Plant, by Chiem Nau, 7 pp. VIETNAMESE, np. Nhan Dan, 26 Jun 1964, p 2. JPRS 25773

Botter Lumber Needed, by Tran Van Cae, 5 pp. VIETNAMESE, np. Nhan Dan, 26 Jun 1964, p 3, JPRS 25759

Third Level Cooperatives Show Good Results, by Lo Quang Tuan, 6 pp. VIBTNAMESS, np, <u>Mhan Dan</u>, 27 Jun 1964, p 2, JPRS 25759

Raise Product Quality and Pay Wages According to Output, by Luong Chi, 5 pp. VIETNAMESS, np. Nuan Dan. 27 Jun 1964, p 3. JPRS 25759

Thanh Itoa Machine Pactory Makes Improved Harvoster, by Ngoc The, 7 pp. VIETNAMESE, np. Nhan Dan, 7 Jul 1964, p 3. JPRS 25773

Soap, by Hoang Minb, 7 pp. VIRTNAMISE, np, Nhan Dan, 8 Jul 1964, p 3, JPRS 25802

Intensive Cultivation is the Primary Means of Doveloping Our Agriculture, by Pham Hung, 15 pp.

15 pp. VIETNAMESE, np. Nhan Dan, 9 Jul 1964, p 2. JPRS 25773

Increasing the Labor Productivity of the Cooperatives, by Van Nhien, 5 pp. VIRTNAMESE, np. Nhan Dan, 9 Jul 1964, p 2. JPRS 25773

Ten Years in Mining, by Anh Vu, 9 pp, VIBTNAMESE, np, Nhan Dan, 15 Jul 1964, p 2. JPRS 25887

Utilization of Light Machinery in Agriculture, by Tran Duc, 7 pp.
VIRTNAMSE, np, Nhan Dan, 22 Jul 1964, p 2.
1008 2008

The Use of the Cooperative's Labor Force in Increasing Collective Reconomic Activity, 5 pp.

5 pp. VIBTNAMRSE, τρ, Nhan Dan, 3 Aug 1964, ρ 2. JPRS 26288

Let us Organize and Guide Parmers in Building Houses and New Rural Areas, 8 pp. VIKTNAMESE, np. Nian Dan, 4, 5 Aug 1964, p 2. JPRS 26288 Far Fast Feonomica (Contd)

Experiences Drawn From the Transportation Operations During the War at Dien Bien Phu, by Yu Van-don, e pp.
VIE INAMESE, np. Quan Dol Nhan Dan, 2 Jun 1964, p 2.
JPRS 28585

Deviations in Suong Tan, by Nguyen Phan Ngoc, 6 pp. VIBTNAMESE, per, Tap Chi van Hoc, No 6, 1964, pp 31-36.
JPRS 25958

Block 45, by Tran Anh, 6 pp. VIETNAMESE, np, Thoi Moi. 27 Jun 1964, p 2, JPRS 25802

Realization Prospects of 1964 Plac, by Hoang Hui Nhan, 11 pp. VIBTNAMESB, per, <u>Tin Tuc Host Dong Khoa</u> Hoe, No 59, May 1964, pp 4-7. JPRS 25459

Achievements of the Agricultural Science Institute in 1963, by Bul Huy Dap, 9 pp. VIRTNAMESE, per, Tin Tue Hoat Dong Khoa Hoe, No 59, May 1954, pp 8 H. JPRS 25459

#### Political

A General Survey of the First-Righth National Congresses of the Communist Youth League, by Chiln Yun, 6 pp. CHINESE, per, Ghung-kus Chilng-men, No 11, 1 Jun 1964, pp 28, 29. JPRS 25546

7 May Reply of Central Committee of the Communist Party, to CPSII, 6 pp. CHINESE, per, Jung Chil, 1964, JPRS 24438

Political Work is the Life Line for All Other Work, 8 pp. CHINESE, per, Hung Chil, No 6, 31 Mar 1964, JPRS 25438

28 July 1964 Coural Committee CCP Reply to Central Committee CPSC Letter Dated 15 June 1964, 15 pp. CHINESE, pot, <u>Hung-chil</u>, No 14, 31 Jul 1964, pp 1-10, JPRS 26148

The Cultivation of Successors a Long Term Project in Revolutionary Work, 10 pp. CHINESE, per, <u>[lung-ch'1</u>, No 14, 31 Jot 1964, pp 34-39. JPRS 26148

Khrushchev and the Disintegration of the Communist Bloc, by Serge Mallet, 5 pp. FRENCH, np. France Observateur, No 745, 13 Aug 1964, p 20, JPRS 20280

Lome Newhetter Says Chinese Want USSR out of Afro-Asian Organizations, 5 pp. FRENCH, np. La Verite Togolaise, No 221, 16 Jul 1904, pp 2, 3, JPRS 25840

Far Last Political (Contd)

With the Spirit of the Red Buffalo, Consolidate a Great Communist Organization, by D. N. Aldit, 8 pp. INDONESIAN, np, Harian Rakjat, 6 Jul 1964, p 3, JPRS 25781 Twenty-Two Resolutions at First National PKI Conference, 5 pp. INDONESIAN, np. Harlan Rakjat, 7 Jul 1964, pp 1, 4. JPRS 25781

Sudisman Consolidate the Efficiency and Militancy of the Party Organization, 16 pp.
INDONESIAN, np, Itarian Rakjat, 9 Jul 1964, pp 3, 4.

Resolutions of the First National Conference of the Indonesian Communist Party 3 to 5 July, 1964, 25 pp. INDONESIAN, np. Harian Rakiat, 15 Jul 1964, pp 3, 4, 16 Jul 1964, p 3. JPRS 26313

Japan Communist Party Daily Answers Soviet Charge That Japanene Delegation Pollowed Chinese Line at 9th World Conference for Banning Atomic and Hydrogen Bombs in 1963, 17 pp. JAPANESE, np. Akahata, 24 Jul 1964. JPRS 26058

Akahata Answers Soviet Criticisms of Japanese Communist Party Stand on Limited Test Ban, JAPANESE, np. Akahata, 24 Jul 1964, pp 11, 12. JPRS 26219

For the Unification and Growth of the World Poace Movement, 5 pp.
JAPANESE, np, Akahata, 30 Jul 1964, p 2.
JPRS 26313

The Tokyo Manifesto, the Second Peace Conference of World Religious Loaders, 5 pp. JAPANESE, np. Akahata, 31 Jul 1964, p 2. JPRS 26313

Akahata Scores Japanese Press Reaction to Conference, 6 pp. JAPANESE, np. Akahata, 1 Aug 1964, p 1. JPRS 26219

Akahata Calls for Unity Against US and NATO Policy, 6 pp. JAPANESE, np. Akahata, 3 Aug 1964, p 1. JPRS 20219

The Pifteen-Year Path of the Patherland Unification Democratic Front, 6 pp. KORRAN, np. Minju Choson, 25 Jun 1964, p 2, JPRS 25778

Let Us Carry Out the Commercial Policy of the Party, by Kim Se-bong, 8 pp. KORHAN, np, Minju Choson, 30 Jun 1964, p 2. JPRS 25778

An Exhaustive Work on Creative Marx-Leninism Which Elucidates the Puture of Korean Rovolution, 38 pp. KOREAN, np. Nodong Sinmun, 3 Jul 1964, pp 2, 3. JPRS 26295

Let us Meet the Demands of the Party by Intensifying the Activities of the Craft Union Organizations, by Yi Chong-su, 8 pp. KOREAN, np. Nodong Sinmun, 9 Jul 1964, pp 2, 3. JPRS 26295

Far East Political (Contd)

The Guiding Role of the Mongolian Popula's Revolutionary Party in the Legislations of the People's Revolutionary State 1921-140, by S. Jalan-asjav, 30 pp.

MONGOLIAN, per, Ediyn Dzasag, Brkhlyn Asuudal,
No 2, 1964, pp 30-48.

JPRS 26230

Mongolian Communist Party Organ Hatis Progress Under Leninism, 5 pp. MONGOLIAN, per, Namyn Am<sup>4</sup>drai, No 4, 1964, pp 3-7. JPRS 26029

Socialist Democracy Must be Developed Effectively, by P. Badmarag, 5 pp.
MONGOLIAN, por, Namyn Am<sup>8</sup>dral, No 4,
1964, pp 10-14.
JPRS 25996

Sectetaries of Primary Party Organizations, 5 pp. MONGOLIAN, per, Namyn Am'dral, No 6, 1964, no 7-11. JPRS 26293

Questions of Production and Consumption During Socialism, by B. Surmasjab, 6 pp. MONGOLIAN, por, Namyn Amidral, No 6, 1964, pp 72-77. JPRS 26293

Pacts of Outstanding Successes and Gains, I were of outstanding successes and Gains, by P. Norgui, 8 pp. MONGOLIAN, por, Namyn Am'dral, No 6, 1964, pp 83-90.

J PRS 26293

Mongoliana Accuse Chinese of Leftist Opportuniam, 17 pp.

MONGOLIAN, np, <u>Unen</u> 27 May 1964, p 3; 28 May 1964, pp 2, 3. JPRS 25501

No Justification for Chineso, says Antoine Tabet, by Antoine Tabet, 5 pp.
RUSSIAN, np. <u>Izvostiya</u>, 16 Jun 1964.
JPRS 25484

CPSU Central Committee Hits Japan Communist Party's Pro-Chinese Line, 33 pp. RUSSIAN, per, Part Zhizn, No 14, Jul 1964, pp 8-30, JPRS 26058

In Connection With Mao Tae-Tunges Talk With a Group of Japanese Socialists, 10 pp. RUSSIAN, np. Pravda, 2 Sep 1964, p 2. JPRS 26276

Taodonbal Plodges Mongelian-Yugoslav Cooperation in July 1964 Interview With Tunjug Editor, by Branko Bonaunovich, 5 pp. SERBIAN, np. Borba, 11 Jul 1964, p 3, JPRS 25800

A Serious Strategic Pallure of the American Imperialists, by Le Thing, / pp. VIBTNAMESE, pp. Luc Lap, N : 673, 22 May 1964, p 10, This 2 Act. JPRS 25481

Assessment of Documents, 9 pp. VIRTNAMESE, per, Nghion Cuu Lich Su, Jun 1964, No 63, pp 1-4. JPRS 25548

Step up Our Nationalities Work, by Le Quang Ba, VIRTNAMESE, np. Nhan Dan, 11 Jun 1964, p 2. JPRS 25585

### Par East Political (Contd)

Third National Assembly Holds First Session, 5 pp.

VIETNAMESE, np, Nhan Dan, 28 Jun 1964, p 1.

JPRS 25585

Report From the Government at the First Meeting of the Third Session of the National Assembly I., by Pham Van Dong, 18 pp.

VIETNAMESE, np, Nhan Dan, No 3742, 28 Jun 1964, pp 2, 3.

JPRS 25779

Report From the Government at the First Meeting of the Third Session of the National Assembly. II., by Pham Van Dong, 22 pp.

VIETNAMESE, np, Nhan Dan, No 3743, 29 Jun 1964, pp 2, 3.

JPRS 25779

Decision by the Council of Ministers on Examination, Validation and Publishing of Results of the National Plan, 7 pp.

VIETNAMESE, np, Nhan Dan, No 3774, 30 Jul 1964, p 3.

JPRS 26210

Importance of the Campaign to Establish Four Good Party Chapters, by Chu Huy Man, 6 pp.

VIETNAMESE, np, Quan Doi Nhan Dan, 26 May 1964, p 2.

JPRS 25439

Major Role of Political Struggle in the Current Resistance in the South, by Nguyen Minh Vy, 5 pp.

VIETNAMESE, np, Thong Nhat, No 365, 26 Jun 1964, pp 1, 3.

JPRS 25971

# Military

Hold the Rifle Tightly in Your Hands, by Kuncheng, 5 pp.

ClinkBik, por, Chung-kuo Chling-nien. No 13, Jul 1964, pp 3-5.

JPRS 25000

How the Officers and Men of Our Army Should Study the Works of Mao Tse-Tung, by Hein Chung-chih, Ti Pu-chung, 5 pp.

CHINESE, per, Hung Chli, No 10, 1964.

JPRS 25438

Modern Martime Warfare, by Nirmolo, 7 pp.

INDONESIAN, per, Armada, No 1, 1964, Rucl to ALUSNA, Djakarts, Indonesia.

Navy 5845017264

(DIA)

Promote the Glorious Tradition in Our Army, by Thanh Luu, 5 pp.

VIETNAMESE, np, Nhan Dan, 1 Jun 1964, p. 2.

JPRS 25459

Introducing the Experiences of Company Commander Kuo Haing-fu of the People's Liberation Army of China, by Hoang Van Thai, 9 pp.

VIETNAMESE, np, Quan Doi Nhan Dan, 26 May 1964, pp 1, 2.

JPRS 25439

### Far East Military (Contd)

Quach Hung Phuc's Training Method, by Dai Ly, 13 pp.
13 pp.
VIETNAMRSE, np, Quan Doi Nhan Dan,
28 May 1964, p 2.
JPRS 25885
Military News Items, by Nguyen Ky Nhien,
Nguyen Van Con, 5 pp.
VIETNAMESE, np, Quan Doi Nhan Dan,
18 Jun 1964, pp 1, 3.
JPRS 25801
Achievements of Company Two, by To An, 5 pp.
VIETNAMESE, np, Quan Doi Nhan Dan,
18 Jun 1964, p 2.
JPRS 25801
Combination of Central Tasks and Building
a Self-Defenso Militia Porce in Quang-Bin',
5 pp.
VIETNAMESE, np, Quan Doi Nhan Dan,
23 Jun 1964,
pp 1, 2.
JPRS 25801
Strengthening the Armed People's Security
Force, by Le Quang Hos, 7 pp.
VIETNAMESE, np, Quan Doi Nhan Dan,
25 Jun 1964, pp 1, 3.
JPRS 2.801

### Geographic

Glacial Stream Mud Flows in Tibet's Ku-haiang District, by Shih Ya-feng, Yang Tsung-hau, et al., 5 pp.
GHINHSE, per, K'o-haugh T'ung-pao, No 6, 1964, pp 542-544.
JPRS 26128

New Records of Glacial Relics in the Middle and Lower Reaches of the Yangtze, by Hung Ti-fan, Yang Shih-cho, 8 pp.
CHINHSE, per, K'o-haugh T'ung-pao, No 6, 1964, pp 544-547.
JPRS 26128

# Sociological

Kuo Haing-Pu<sup>8</sup>s Dialectic, by Ch<sup>8</sup>ion Yung-tan, 10 pp.
CHINESE, per, Cho-hauch Yon-chiu, No 3, 1964, pp 9-13,
JPRS 25797
Do Parmera Belong to the Hostile Landlord Class, by Ch<sup>8</sup>i Hais, 28 pp.
CHINIESE, per, Cho-hauch Yon-chiu, No 3, 1964, pp 16-34.
JPRS 25797
A Criticism of the 1888 English Edition of the Manifosto of the Communist Party, by Sung, 5 pp.
CHINIESE, por, Cho-hauch Yon-chiu, No 3, 1964, pp 35, 36,
JPRS 25791

Far East Sociological (Contd)

Rural Villages Form a Large Furnace for Steeling the Younger Generation, by Lin Nung, 7 pp. CHINESE, per, Chiao-wu Pao, No 2, Apr 1964, pp 10, 11. JPRS 25546

From a Tendor Girl to a Prontier Builder, by Yu Shan-ling, 6 pp. CHINESE, per, Chung-kuo Ch'ing-nien, No 11, 1 Jun 1964, pp 11, 12; JPRS 25546

Insist on Principles in Order to be a Good Cuarodian, by Li Kuang-huan, Nich Feng-lin, 6 pp.
CHINESE, per, Chung-kuo Ching-nien, No 11, 1 Jun 1964, pp 16, 17.

JPRS 25546

Tackle the Mont Urgert When There are Three Affairs in the Paintly, by Hsia Fong-yuan, 7 pp. CHINESE, per, Chung-kue Ching-nien, No 11, 1 Jun 1964, pp 20, 21.

JPRS 25546

Develop Class Education as a Routine, by Chang Hsuch-yen, 7 pp.
CHINKSE, por, Chung-kuo Ching-nien, No 13, Jul 1964, pp. 14-15.
JPRS 25900

The Devicus Process of Ideological Progress, by Lt Mu-1, 6 pp.
CHINESE, per, Chung-kuo Ch'ing-nien, No 13, Jul 1964, pp. 26-27,
JPRS 25900

Develop Revolutionary Spriit, Dostroy Modern Revisionism, by D. N. Aldit, 12 pp. CHINKSB, por, Hung-chil, No 11, 7 Jun 1964, pp 1-5, JPRS 25987

The American Negroos! Just Struggle Will Inovitably Win, by Lin Won-shan, Cheng Kung-tun, 20 pp.
CHINKSE, por, Hung-ch!1, No 11, 7 Jun 1964, pp 23-31.
Ji'RS 25987

Vivid Teaching Material for Class Struggle, by Huang Chiu-yun, 5 pp. CHINESE, por, Hung-chi, No 11, 7 Jun 1964, pp 32, 33, JPRS 25987

Recrotically Write Records of Socialist Heroes, by Sung Shuang, 6 pp.
CHINEER, per, Hung-chi, No 11, 7 Jun 1964, pp 34-36.
JPRS 25987

How to Understand Absolute Truth, and the Critorion of Practice, by T'ao To-lin, 13 pp. CHINESE, por, [lung-chi, No 11, 7 Jun 1964, JPRS 23987

Great Revolution on Culture Pront, 6 pp. CHINKSE, pc, Hung-chil, No. 12, 30 Jun 1964, pp 1-4.
JPRS 25998
Racial Question is Essentially Class Question

Racial Question is Essentially Class Question, by Chang Ch'un-han, Shih Che-min, 11 pp. CHINESE, per , Huns-ch', No 12, 30 Jun 1964, pp 26-32.

JPRS 25998

Far East Sociological (Contd)

A Trivial Matter Changed into an Import and Good Matter, by Yang Ch'un-hau, 5 pp. CHINESE, per, Hung-ch'i, No 12, 30 Jun 1964, pp 40-42.

JPRS 25998

Translations Prom Hung-ch<sup>9</sup>1, 46 pp. CHINESE, per, Hung-Ch<sup>9</sup>1, No 13, 14 Jul 1964, pp 1-33, JPRS 26011

On the Reform of the Peking Opera, by Pieng Chen, 11 pp. CHINESE, per, Hung-chi, No 14, 31 Jul 1904, pp 18-24. JPRS 26148

Ton Great Years of Socialist Revolution and Socialist Construction in Vietnam, by Chu Ch'l-wen, 16 pp. CHINESE, per, Hung-ch'l, No 14, 31 Jul 1964, JPRS 26148

Socialist Dramatic Arts to Sorve Socialist Reenomy, by K'o Chi'ing-shih, 24 pp.
CHINESE, per, Hung-chi, No 15, 15 Aug 1964.
JPRS 26315

A Critique of the Philosophical Basis of Chou Ku-chilangia Conception of Art, by Jo hatt. 19 pp. CHINESH, per, <u>Hung-chil</u> No 15, 15 Aug 1904, pp 32-42. JPRS 26315

1 Punch Card and Card Statistical Machine, by Tiang Shao-chuch, 7 pp. CHINESE, per, Wen-tzu Kai-ko, No 7, 1964, pp 13, 14.

Brief Nows Items on Language Reform Activities, 9 pp. CHINESE, per, Wen-tzu Kal-ke, No 7, 1964, pp 27, 28. JPRS 26300

Victory of Indonesian Revolution With Dialectical and Historical Materialism, by Njoto, 18 pp. INDONESIAN, np. Harian Rakjat, 9, 10 Jun 1964. JPRS 25998

A Way to Conquer the Class Distinction Between the Labor and Parming Classes, by Yt Su-kun, 12 pp. KOREAN, per, <u>Kulloja</u>, No 247, May 1964, pp 2-7. JPRS 26098

Behavior and Character Refinement of Our Youth, by Song Son-kyong, 9 pp. KORHAN, per, <u>Kulloja</u>, No 247, May 1964, pp 15-20. JPRS 26098

individuality and Socialism, by Hwang Yong aik, 12 pp.
KORKAN, per, <u>Kulioja</u> No 247, May 1964, pp 21-28.
JPRS 26098

Technical Innovation for the Masses, by Chon Chong-hui, 13 pp. KOREAN, per, <u>Kullojs</u>, No 247, May 1964, pp 29-35, JPRS 26098

Creating a Typical Model for the Labor Class, by Yl Sang-c'ae, 7 pp. KORHAN, per, <u>kullols</u>, No 247, May 1964, pp 42-48, JPRS 26098

The Proletarian Class and Rural Assistance, by Pak Iiak-su, 6 pp. KOREAN, per, Nodongia, May 1964, pp 7-12, JPRS 20098 Ear Past Sociological (Contd)

The Popular Working Attitude, by O Che-yong, 11 pp. KOREAN, np, Nodong Sinmun, 12 Jul 1964, p 2. JPRS 26295

Party Policy to Consolidate an Alliance Between the Proletarian Class and the Farmers. by Hong Sungppy to, 10 pp. KOREAN, np, Nodong Sinmun, 22 Jul 1964, pp 3, 4. JPRS 26295

The Rural Cultural Revolution, by Chung Chi-hwan, 5 pp. KOREAN, np. Nodong Stamun, 28 Jul 1964, p 2. JPRS 26295

The New Criminal Trial Law of the Mongolian People's Ropublic, by L. Teend, 6 pp. MONGOLIAN, per, Ediyn Dzasag, Erkhlyn Asuudal, No 2, 1904, pp 54-58. JPRS 20230

Pundamental Principles of the New Criminal Trial Law of the MPR, by G. Ish, 6 pp. MONGOLIAN, per, Ediyn Dzasag, Erkhiyn Asuudal, No 2, 1964, pp 59-62, JPRS 26230

The Party Solicitude for the Welfare of Younger Generation, by D. Surenjab, 6 pp. MONGOLIAN, per, Namya Amidral, No 6, 1964, pp 18-23. JPRS 26293

Vinh Yostorday and Today, by Bien Xanh, 10 pp. VIETNAMESE, np. Cuu Quoc, 24 May 1964, pp 8, 9. JPRS 25487

Talks to Parents on Puture of Youth. by Hoang Thieu Son, 9 pp.
VIETNAMESE, np, Cuu Quoc, 14 Jun 1964. JPRS 26314

Halphong After Nine Years of Liberation, 7 pp. VIETNAMESE, np. <u>Loc Lap.</u> 15 May 1964, p 3.

Actively improve One<sup>t</sup>s Thinking to Better Serve the Revolution, by Tran Kiem Ly, 6 pp. VIETNAMESE, np. Doc Lap, No 673, 22 May 1964, p 9. JPRS 254B1

Liberation and Unification of Vietnam, and Our Puture Plans, 13 pp.
VIRTNAMESE, per, Hoc-Tap, No. 7, 1964, pp 1-8. JPRS 25918

Our Efforts to Liberate the People Will be Completely Successful, by Yong Chuong, 10 pp. VIETNAMESE, per, Hoc Tap, No 7, 1964,

pp 16-29. JPRS 25918

Workers and Citizens Movement in the Cities of South Vietnam, by Nguyen Minh Vy, 14 pp. VIETNAMESE, per, tioc Tap, No 7, 1964, pp 40-47, JPRS 25918

I'en Years of Struggle, I'en Years of Victory, by Phan Hanh, 14 pp.
VIETNAMESE, per, Hoc Tap No 7, 1964, pp 48-55. JPRS 25918

Raising the Quality of the Work-Brudy Movement Among Cadre, Workers and Farmers, by Ngo Van Cat, 16 pp. VIE TNAMESE, per, Hoc Tap, No 7, 1964, pp 56-64. JPRS 25918

Fai Lani Sociological (Contd)

Experiences in Socialist Education Activities for Workers, by Duong Huong, 12 pp. VIETNAMESE, per, Hoc. Tap., No. 7, 1964, PP 05-71, JPRS 25918

Struggle to Uphold Ideals in the Task of Reason and Literary Criticism, by Nguyen fluy, 14 pp. VIETNAMESE, per, the Tap, No 7, 1904, pp 72-78. JPRS 25918

The Question of Utilization of Folklore, y Nguyen Dong Chi, 14 pp. VIBTNAMESE, per, Nghien Cuu Lich Su, No 63, Jun 1964, pp 48-53. JPRS 25548

Keeping Muong Villages Peaceful and Happy, by Truong Hieu, 5 pp.
VIETNAMESE, np. Nhan Dan, No 3702, 19 May 1964, p 2. JPRS 25459

Dong Anh Huyen Successfully Meets Food Obligation, by Ha Hoa, 7 pp. VIRTNAMESE, per, <u>Man Dan</u>, 4 Jun 1904, p 3, JPRS 25959

Block 30 of Dong Da Hanot ta Building a Securo, Orderly Life, 7 pp. VIETNAMESE, op. Shan Dan, 7 Jun 1964, p 2.

Each Person Work as Two Competition in Sait Production, by Ngo minh Loan, 8 pp. VIRTNAMESE, np. Nhan Dan, 7 Jun 1964, p 3. JPRS 25487

Resolutely Activate the Masses, 6 pp. VIRTNAMESE, np. Nhan Dan, 8 Jun 1964, p 3. JPRS 25487

Ha Nam Students Serve Agriculture, by Van Trong, 5 pp. VIRTNAMESE, np. Nhan Dan, 12 Jun 1964, p 3. JPRS 25496

The Problem of Going Deeply tom the Reality of Life, by Nguyen Khat, 8 pp.
VIRTNAMESR, np, Nhan Dan, 4 Jul 1964, pp. 5, 6.
JPRS 25779

Build the Revolutionary Porces of the People, by Nguyen Lam, 7 pp. VIRTNAMPSK, np. Nhan Dan, 8 Jul 1964, p 2. JPRS 25779

The Liberation War Wagine Against Unite States imperialized and its Lackeys by the People in South Vietnam Will be Won, by Vo Nguyen Giap, 48 pp. VIRTNAMESE, np. Nhan Dan, 19 Jul 1964, pp 2-5.

The Campaign to Build Pour Goods Cells in Hai-Phong, by Hoai Viet, 8 pp. VIBTNAMESE, np. Nhan Dan, 2 Aug 1964, p 2. JPRS 26288

Cao Bang Province Overcomes Rightlin, Conservative, and individualistic Thinking, by Chu Van Tan, 7 pp. VIRTNAMRSE, np, <u>Nhan Dan</u>, No 3781, 6 Aug 1964,

A Valuable Book About the Battle of Dien Bien Phu, A Valuation Book Allow the Partie of Trick the Holm Minh Tham, 11 pp. VIETNAMESE, np. Quan doi Nhan Dan, No 137h, 2 Jul 1964, p 2. JPRS 25801

### Far East Sociological (Contd)

The Emulation Movement in Higher Level and Intermediate Political Schools, by Hoang Huyen, 5 pp. VIETNAMESE, mp. Quan Doi Nhan Dau, 7 JPR 26220

Initial Results of Movement Everyone do the Work of Two at Vietnamese Military Academy, by Le Tu Dong, 5 pp.
VIETNAMESH, np, Quan Doi Nhan Dan,
21 Jul 1964, p 2.
JPRS 26170

The Resolution of the 9th Contral Committee Plenum and Our Litorary Task, by Yu duc Phuc, 10 pp. VEITNAMESB, np, Tap Chi Yan Hoc, Apr 1964, pp 1-5, JPRS 25519

Literature and the Present Ideological Work, by Hoang Huu Nhan, 33 pp. VIETNAMESE, per, Tap Chi Van Hoc. No 5, 1964, pp 12-27.
JPRS 25439

What are You Studying for, by Le Duc Tho, 5 pp. VIETNAMESE, np, Thieu Nion Tien Phong. 22 May 1964, pp 4, 5. JPRS 25487

A Discussion About the Youth's Way of Life, by Thanh Binh, 19 pp.
VIETNAMESE, np. Tion Phong. 5 May 1264, pp 1, 4.
JPRS 25481

Education is a Means of Serving the Country and the People, by Le Duc Tho, 6 pp. VIRTNAMESE, np, <u>Tion Phong</u>, 10 May 1964, p. 3. JPRS 25519

Young People's Style of Work, by Thanh Binh, 15 pp.
VIETNAMRSE, up, Tien Phong, 20, 22 May 1964, pp 2, 3.
JPRS 25585

Criticiam of the Book Beauty by Vu Khieu, 6 pp. VIRTNAMRSR, np. Tien Phong. 27 May 1964, pp 3, 4. JPRS 25585

A Book That Lifts Our Hearts and Minds, by Dao Bich Nguyen, 6 pp. VIRTNAMESE, por, Van Ngho, 15 May 1964, pp 4, 5, JPRS 25519

Raise the National Character in the Arts of Nationalities, by Nong Quoc Chan, 8 pp. VIETNAMESE, np. Van Nghe, No 59, 12 Jun 1904, pp 1, 3, 18. JPRS 25548

Three Deaths in the Play Half of the Land in Darkness, by Truong Luu, 7 pp. VIETNAMESE, np. <u>Van Nghe</u>, No 59, 12 Jun 1904, pp 13, 14. JPRS 25548

#### I ATIN AMERICA

#### Economic

An Interview With Che Guovara, 5 pp. ITALIAN, per, Yie Nuovo, No 7, 1964, pp. 50-54.
JPRS 25899 1963 Statistics Summary for Cuba, 112 pp. SPANISH, TM, pp 1-62. JPRS 26138 Nemoatodo Causing Paralysis in Cattle, 5 pp. SPANISH, mp, Bohomia, 12 Jun 1964, pp 6-11. JPRS 25539 A New Variety of Corn, by Matio G. del Cueto, 5 pp. SPANISH, up, <u>Bohemia</u>, No 25, 19 Jun 1964, pp 12, 13, 15. JPRS 25858 The Investment Process in Cuba, by Alban Lataste, 6 pp. SPANISH, per, Comiercio Exterior, Oct.-Dec 1964, pp 23-27. JPRS 26041 Reflections on Trade Policies, by Pedro Rios, 7 pp. SPANISH, per, Comercio Exterior, Oct-Dec 1964, pp 39 -44. JPRS 20041 Cuban Statistics on Foreign Trade, 6 pp. SPANISH, per, Comercio Exterior, Oct-Dec 1964, pp 130, 132, 134, 136, 138. JPRS 20041 The Organization of Agricultural Working Brigades, by Israel Talavora, 9 pp. SPANIRI, per, Cuba Socialista, Vol IX, No 32, Apr 1964, pp 38-50, JPRS 25977 Panamanian National Aviation Regulations, 59 pp. SPANISI, per, Gaceta Oficial, Vol LX, No 14,987, 21 Oct 1963, pp 1-28.

JPRS 26119 Agenda for the First National Sugar Forum, 18 nn. 18 pp. SPANISH, np. Hoy, 17 Jun 1964, pp 7, 8. JPRS 25539 Speech by Blaz Roca at the Aviculture Meeting, 5 pp. SPANISH, np. Hoy, 18 Jun 1964, p 4. JPRS 25539 Aviculture Meeting in Pinar Del Rio, by Ricardo Saenz, 6 pp. SPANISI, np. Hoy, 18 Jun 1964, p 4. JPRS 25539 Need for a Vanguard of Chemical Engineers for Sugar Industry Discussed, 8 pp. SPANISH, up. 107, 24 Jun 1964, p 4, JPRS 25577

pp 81-99.
JPRS 25921
The Consolidated Enterprise of Silicates the Rene Arcay Cement Factory, 8 pp.
SPANISH, per, Nuestra Industria, Vol IV,
No 5, 1969, pp 4-31.
JPRS 25440

An Economic Analysis of the Spinning and Textile Industry, by Rolando Cuenca, 21 pp. SPANISH, per, Industria Economica, No 7, 1964,

Petroleum Combine Operations, by Jose A. Pinera, 9 pp. 8 PANISH, per, <u>Niestra Industria Economica.</u> No 7, 1964, pp 58–65. JPRS 25921

#### Latin America Political

Trotskyite View of the Situation in Peru, 11 pp. PRENCH, per, Sous le Drapeau du Socialisme, No 6, 1964, pp 6-9. JPRS 25501

Mexican independent Analysis of the Conflict, by M. Seara, 26 pp. SPANISH, per, Cuadernos Americanos, No 3, May, Jun 1964, pp 7-32.

JPRS 25436

Poaceful Coexistence Doctrine Analyzed by Mexican Scholar, by Modesto Seara Vazquez, 15 pp.
SPANISH, per, Cuadernos Americanos, No 4, Jul, Aug 1964, pp 93-112.
JPRS 25950
Revolutionaries Defined, 7 pp.

Revolutionaries Defined, 7 pp. SPANISH, np. Hoy, 11 Jul 1964, p 2. JPRS 26041

Translation of Senator Frei's Speech, 17 pp. SPANISH, np. <u>Rl Morcurio</u>, 18 Jun 1964, Rncl te Desp A-35, Santiago, Chile. Dept of State

Orlando Millas Address to the Central Committee of the Chilean Communist Party, 18 pp. SPANISH, np. Principios, May, Jun 1964, pp 138-144.
JPRS 25436

26 July Celebrations in Cuba, and Abroad, 5 pp. SPANISH, np. Royolucion, 27 Jul 1964, p 15. LPRS 26183

## Sociological

The Shortage of Schools and Teachers, 5 pp. ITALIAN, per, Vic Nueve, No 7, 1964, pp 47-48.
JPRS 25899
Reorganization of Health Insurance Plan Hospitals, by Gregorio Hernandoz, 12 pp. SPANISH, per, Bohemia, 26 Jun 1964, pp 92-97. JPRS 26136
The Rising Guban Academy of Sciences, by Antonio Nunez Jimenez, 9 pp. SPANISH, per, Guba Socialista, Vol IX, No 32, Apr 1964, pp 22-37.
JPRS 25977
Agreements to be Returned, 5 pp. SPANISH, mp, El Mundo, 31 Jul 1964, p 5. JPRS 26183

# WORLD WIDE

# Economic

A Discussion of Certain Basic Problems in International Socialist Planning, by S. Miroshnichenko, 18 pp. RUSSIAN, per, Voprosy Ekon, No 4, 1964, pp 65-78. JPRS 25788 World Wide Economic (Contd)

Certain Questions in the Economy of the World Socialist System, by M. Ustyevich, 13 pp. RUSSIAN, por, Voprosy Ekan, No 5, 1964, pp 84-92.

JPRS 25788

A Call for an Exchange of Idean, by Gian Piero Bregs, 9 pp.

ITALIAN, por, IL Pilo Rosso, No 8, Jan-Apr 1964, pp 69-76.

JPRS 25436

# Political

The Communists of the World Reject Dissidence, RUSSIAN, per, Kommunist, No 8, May 1964, pp 20-34. JPRS 25436 The Dissidents Will not Force World Communism From the Leninist Path, 10 pp. RUSSIAN, por, Kommunist, No 9, Jun 1964, pp 79-86. JPRS 25778 The Nonaligned States and the Struggle for Peace, by N. Pastukhov, 9 pp. RUSSIAN, per, Kommunist, No 9, Jun 1964, pp 97-103.
JPRS 25778 Peaceful Coexistence a Form of Class Struggle, by Sh. Akhmedov, 6 pp. RUSSIAN, mp. Kommunist Tadzhikistana, 5 Jun 1964, pp 2, 3. JPRS 25501 Comments on the Various Speeches, 9 pp. RUSSIAN, np. Unir, Jun 1964, pp 2, 4, 5. JPRS 25484 On Khrushchev's Phoney Communism and its Historical Lessons for the World, 45 pp. CHINESE, per, Hung-ch'!, No 13, 1964. JPRS 26308 Pidia Sassano on European Trade Union Relations, by Fidia Sassano, 12 pp. ITALIAN, np, Avanti, 29 Jul 1964, 1 Aug. 7 Aug 1964, p 3, JPRS 26055

# Military

The Origin of Military Cybernetics in Poreign Countries, by V, Vaneyev, 15 pp. RUSSIAN, per, Yoyenno-Istoricheskiy Zhurnal. No 8, 1963, pp 38-48.

JPRS 26057

World Wide Sociological

Against Dogmatism and Vulgarization in Literature and the Arts, 22 pp. RUSSIAN, per, Kommunist, No 9, Jun 1964, pp 9-26. JFRS 25778 The United Arab Republic in a New Stage, by I. Belyayev, V. Cheprakov, 12 pp. RUSSIAN, par, Kommunist, No 9, pp 87-96, JPRS 25778 The Approval of Friends and the Forced Recognition of Enemies, by I, Kulikova, 7 pp.
RUSSIAN, per, Kommunist, No 9, Jun 1964, pp 104-109.
JPRS 25778 Spiritual Poverty, by B. Leont'yev, 11 pp. RUSSIAN, per, <u>Kommunist</u>, No 9, Jun 1964, pp 110-118. JPRS 25778

### SCIENTIFIC

#### Aerospace

Man in Outer Space, by A. M. Genin, N. N. Gurovskiy, et al, 112 pp.

RUSSIAN, pampilet, Chelovek v Kosmose, Moscow, 1963, pp 1-161.

JPRS 25825

Procoedings of the Central Aerological Observatory, No 42. By G. A. Kokin, N. S. Livshits, 200 pp. RUSSIAN, hk, Citirometeorologicheskove Izdate) stvo (Otdelentye), Moscow 1962. 9224432-V NASA TT F-141

Connection Between Aerodynamic Heating and Connection Between Acrogynamic Flowing and Surface Friction, by L. V. Kozlov. RUSSIAN, por, 12 Ak Nauk SSSR, Otdol Tekh Nauk Mokh I Mash, No 4, 1963, pp 108-111. Navy Tr 3877/APL T1060

Missile-Launching Motor Boats, by D. Pigorev. RUSSIAN, por, Yoyonnyyo Zhaniya. No 1, 1904, pp 14-15. Navy/APL J424

The Vibrations of Missiles, by R. Valid, 14 pp. PRENCH, rpt, Paper Presented to the Soventeenth Meeting of the Committee on Structures and Materials of the A.G.A.R.D., 2-10 Sep 1963, 909,3405 DDC RSIC-209

# Agriculture

Pertilizers for Potatoes, by A. I. Tamman, 14 pp. RUSSIAN, per, <u>Auroklimiya</u>, No 2, 1964, pp 22-31. JPRS 25846 Nutrient Mixtures for Different Hydroponics Cultures, by Z. I. Zhurbitskiy, 15 pp. RUSSIAN, per, Agrokhimiya, No 2, 1964, pp 42-52. JPRS 25846 Scientific Agriculture (Contd)

Effect of Complex Fertilizers on Sugar Beets, hy I. G. Rozhdostvenskiy, 16 pp. RUSSIAN, per, Agrokhimiya, No 2, 1964, pp 53-63. JPRS 25846 Need for Agrochemistry in the USSR, by A. Polinikov, 6 pp.
RUSSIAN, np. Ekon Gazota, No 12, 23 Mar 1963, p 34. JPRS 25956 Cost Price of Produce and the Profitableness of Production, 16 pp. RUSSIAN, np. Ekon Gazeta, No (143), 1 May 1904, pp 1-7. JPRS 26039 Khozraschet in Kolkhozes and Sovkhozes, 24 pp. RUSSIAN, up. Ekon Gazeta, No 18 (143), 1 May 1964, pp 8-16. JPAS 26039 The Financial System of the Kolkhozes and Sovkhozom, 4 pp. RUSSIAN, np. <u>Rkon Gazota</u>, No 20 (145), 16 May 1964, pp 1-12. JPRS 26039 Stocktaking and Accounting, 11 pp. RUSSIAN, np. <u>Bkon Gazeta</u>, No 20 (145), 16 May 1964, pp 13-16. JPRS 26039 Sourses of Formation of Fixed and Circulating. Sovkhoz Assets and Their Use, by V. Semenov, 18 pp. RUSSIAN, per, Ekon Sel'skogo Khoz, No 4, 1964, pp 30-43. JPRS 26039 Comparative Evaluation of Compound and Simple Pertilizers in Light Sandy Loam Solls, by A. V. Peterburgsviy, 6 pp. RUSSIAN, per, <u>1z. Fimiryazevskov Sel'akokhoz</u> Akademii, No 3, (46), 1962, pp 78-82. JPRS 25809 Complex Liquid and Solid Pertitizers, Testing and Prospects for Utilizing Thom in the USSR, by A, V. Poterburgskly, 27 pp. RUSSIAN, per, iz Timiryazevskoy Sel'skokhoz Ak, No 3, (52), 1963, pp 103-121.

JPRS 25937

Mineral Fortilizers Banic Ways of Rational Use of Fertilizers in Agriculture, by G. A. Cheremininov, 9 pp. RUSSIAN, per, Khim v Sel\*skom Khoz, No I,

1963, pp 3-6. JPRS 26031

Mineral Pertilizers Decisive Condition of Production Growth of Agricultural Freducts, Products, Spy. Riskand Froducts, 5 pp. RUSSIAN, per, Khim v Sel<sup>2</sup>skom Khoz, No 1, 1963, pp 7, 8.

JPRS 26031

Chemical Analysis of Soils Basis of Fertilizer Application, by A. V. Sokolov, 8 pp. RUSSIAN, per, Khim v Sellskon, Xhoz, No 1, 1963, pp 9-11, JPRS 26031

Role of Nitric Feeding in Forming of Harvest, by V. V. Teerling, <sup>18</sup> pp. RUSSIAN, per Khim v Sel'skom Khog, No 1, 1963, pp 11-17, JPRS 26031

On the Value of Magnesium and Magnesium Containing Pertilizors, by M. M. Mazayeva, 12 pp. RUSSIAN, per, Khim v Sel'skom Khoz, No 1, 1963, pp 17-21, JPRS 26031

Scientific Agriculture (Contd)

Complex Compound of Iron With Diethylenetr Pentacetic Acid as a Means of Combatting Chlorosis, by V. M. Churbanov, 5 pp. RUSSIAN, per, Khim v Sel'skom Khoz, No 1, 1963, pp 21, 22. JPRS 26031 Complex Compound of Iron With Diethylenetriamine Pre-Sowing Treatment of Seeds by Molybdenum, by Yu. A. Potatuyova, 9 pp. RUSSIAN, per, Khim v Sellskom Khoz, No 1, 1963, pp 23-25, JPRS 26031 Rifectiveness of Liquid Nitric Pertilizers on Turfy-Podsoite Soil, by P. V. Yanishevskiy, V. M. Vlasova, 14 pp. RUSSIAN, per, Khim v Solskom Khoz, No 1, 1963, pp 26-29. JPRS 26031 Chemical Means of Plant Protection, Inhibiting Cholinesterases and Allesterases by Phosphororganic Compounds, by S. A. Roslaviseva, 6 pp. RUSSIAN, per, Khim v Sel'akom Khoz, Ne 1, 1963, pp 30, 31.

JPRS 20031 Biological and Polarographic Methods of Chlorophos Analysis, by P. V. Popov, M. S. Parher, et al, 6 pp. RUSSIAN, per, Khim v Sel'skom Khoz, No 1, 1963 pp 32, 33, JPRS 26031 Combination of Tetramethylthyuramdiaulfide Preparations With Insecticide Additions for Treatment of Corn Seeds, by K. A. Gar, Yo. I. Andreyova, 14 pp. RUSHAN, por, Khim v Selskom Khoz, No 1, 1963, pp 34-38, JPRS 26031 Herbicides, Defoliants and Dessicants, Rifectiveness and Peculiarity of Action of a New Cotton Plant Defoliant Butyphos, New Cotton Plant Perman Paryphon, by L. D. Stonov, 11 pp. RUSSIAN, per, Khim v Soleakom Khoz, No 1, 1963, pp 39-42, JPRS 26031 Nontographs for Appraisal of Horbicide Preparations, by Ya. Yu. Staroseliskly, 11 pp. RUSSIAN, por, Khim v Seliskom Khoz. No 1, 1963, pp 44-47, JPRS 26031 by D. I. Chkanikov, Yo. P. Aloshin, et al, 13 pp. RUSSIAN, per, Khim v Solvakom Khoz, No 1, 1963, pp 46-51.

JPRS 26031 Chemistry in Animal Husbandry, Chemical Preservation of Vegetable Fodders, M. T. Taranov, 13 pp. RUSSIAN, per, Khim v Seleskom Khoz, No 1, 1963, pp 52-56. JPRS 28031 Chronicle, Fifth International Congress on Pesticides, N. N. Mol'nikov, 5 pp.
RUSSIAN, por, Khim v Sel'skom Khoz, No 1,
1963, pp 59-61.
JPRS 26031 Conference of Participants of the Geographic Network of Experiments With Fertilizers, 5 pp. RUSSIAN, per, Klum v Sel'skom Khoz, No 1, 1963, pp 62, 63.

JPRS 26031

Scientific Agriculture (Contd)

Prospects for the Development and Specialization of Agriculture in the Central Asia Republics, by K. Lapkin, 13 pp. RUSSIAN, per, Kommuniai Uzbek, No 3, 1964, pp 27-35. JPRS 26039 Cotton Growing Planning Problems in Turkmen SSR, by S. Petrakov, 6 pp. RUSSIAN, per, Narod Khoz Sredney Azii, No 4, 1964, pp 58-60, JPRS 20039 Irrigation and Land Development are an Inneparable Unit, by Yu. Shenger, 8 pp. RUSSIAN, per, Narodnoyo Khozyayaiyo Sredney Azii, No 5, 1964, pp. 51-54.
JPRS 25906 Changes Wrought by the Yement Revolution of 1962, by B. Cherkasov, 6 pp.
RUSSIAN, pet., Rovasnik, No 7, 1904, pp 4-0.
JPRS 26117 Some Indicators of the Development of USSR Agriculture in 1903, 32 pp. RUSSIAN, per, <u>Vest Statist</u>, No 5, 1964, pp 79-85, JPRS 26039 Economics of Irrigated Agriculture, by V, Volodin, 10 pp. RUSSIAN, per, Vest Statist, No 6, 1964, pp 9-15. JPRS 26105 The Economic Effectiveness of Agricultural Intensification, by P. Ignatovakiy, 16 pp. RUSSIAN, per, Vopromy Ekon, No 4, 1964, pp 35-44. JPRS 26039 Material Incontive is a Prorequisite for the Rise of Agriculture, by G. Gaponenko, 15 pp. RUSSIAN, per, Yopromy Rkon, No 5, 1964, pp 3 11. JPRS 26113 Conclusions Based on the Inventory of Forests in 1963, by Mikhail Mikhaylov, Konstantin Zdravkov, BULGARIAN, per, Gorako Stopanatvo, No 5, 1964, pp 12-15, JPRS 25549 The Development of Agriculture During the Years of the People's Government, by Yordanka Trichkovs, 10 pp. BULGARIAN, por, <u>tkonomichoska Misul</u>, No 6, 1964, pp 107-111, JPRS 20100 The Development of Cooperatives in Hulgarian Agriculture, by Ivan Promov, 21 pp. HULGARIAN, p.r., Novo Vreme, No 7, Jul 1964, pp 12-25. JPRS 25969 Yugoslav Agriculture Develops Along Capitalist Path, by Shih Tung-hitang, 12 pp. CHINESE, per, Hung-ch<sup>1</sup>1, No 11, 7 Jun 1964, pp 6-22, JPRS 25987 Why Does Agriculture Develop Foward Concentration and Contraction, by Klou Lai-1, Chao I lien fu, CHINESE, per, Hung-chil, No 14, 31 Jul 1964, pp 40, 41. JPRS 26148 Studies on the Distant Pollon Induction of Cotton, by Liang Chen-lan, Chang Ta-ta, et al, 11 pp. CHINRSR, por, Kto-hauch Tung-pao, No 5, 1964, pp 445-449.

JPRS 25819

### Scientific Agriculture (Contd)

Recovery of Pyridine Nucleotide on the Loss of Recovery of Pyridine Nucleotide on the Loss Dydrogenase Activity in the Process of Decreased Lifespan of Poplius Nigra VAR. Italica Dur. Seed, by Tang Pael-sung, Cheng Kuang-hua, et al., 10 pp. CHINKSE, per, K'o-hsuch Tung-pao, No 6, 1964, pp 535-537.

JPRS 26310 Study of Oxygen Transportation From Stalk and Leaves to Root System in Young Higher Plants Quantity Transported, by Ju Chleng-hou, Pai Klo-chih, et al, 8 pp.

CHINESE, per, Klo-hauch Tlung-pao, No 6, 1964, pp 537-539. JPRS 26310 Study of Oxygen Transportation From Stalk and Leaves to Root System in Young Higher Plants Pathways and Conditions, by Ju Chieng-hou, Pai Kto-chih, et al. 7 pp. CHINESE, per, Kto-hauch Ttung-pap, No 6, 1964, pp 539-541. JPRS 26310 by Janos Szekacs, 5 pp.
IIUNGARIAN, por, Magyar Mezogazdasag,
Vol XIX, No 23, 3 Jun 1964, pp 12, 13.
JPRS 25725 Experimenta With Foreign Varieties of Grass, Rating Regulations for Improved Plant and Animal Species, as Well as Production and Breeding Technology, 14 pp.
HUNGARIAN, per, Mozogazilanari Ertenito,
VJ No. 15, 1964, pp 263-269.
JPRS 25892 Propagation of Seed Potatoes, by Lajoa Barada, 5 pp. HUNGARIAN, per, Termeloszovetkozotek Vetomagtermosztesi Tanacsadoja, No 24, 10 Jun 1964, pp 6, 7. JPRS 25725 A Horticular Development Program is Needed, by Waldomar Michia, 6 pp.
POLISH, np. Zycie Gospodarcze, No 3,
26 Jul 1964, p 6.
JPRS 25969 The Regional Aspects of Agriculture in Bosnia-Horcegovina and Slovenia, by Zak Finci, 29 pp.
SERBOCROATIAN, por, <u>Bkonomika Poljoprivrede</u>,
Vol XI, No 6, 1964, pp 33-46,
JPRS 26049

Agriculture in Rumania, by Brana Milovanovic, 14 pp.
SERBOCROATIAN, per, Ekonomika Poljoprivrede, Vol XI, No 6, 1964, pp 72-78.
JPRS 25969

The Tasks Ahead in Yugoslav Agriculture, by Joze Ingolic, 17 pp. SERBOCROATIAN, per, Glasnik, No 7, 1964,

pp 3-11. JPRS 26234

# Biological & Medical Sciences

Space Biology and Medicine, by V. I. Yazdovskiy, 72 pp.
RUSSIAN, bk, Biologiya i Kosmos; Problemsy
Kosmicheskoy Biologii i Meditalny, Moscow, 1964,
pp 3-80.
JPRS 26231 Translations From Great Medical Encyclopedia, 67 pp. RUSSIAN, bk, Bol'shaya Meditsinskaya Entablo-pediya, Vol XXIII. Moscow, 1963, pp 164-189; 324-331, 1118-1140. JPRS 26116 Hemoglobin, Comparative Physiology and Biochemistry, by P. A. Korzhuyer, 8 pp. RUSSIAN, bk. Concerning Characteristics of Comparative Physiologo-Biochemical investigations, Moscow, 1964, pp 5-10, 286, 287.

JPRS 26214 Decontamination of Means of Individual Protection and Protective Clothing, by S. M. Gorodinskiy, Z. Ye. Panfilova, et al. (DC -10771) RUSZIAN, bk, <u>Bezaktiva siya Sredsty Individual noy</u> Zanlichty i Zashchitnykii Pokrytiy, Moscow, 1964, pp 3-120. Use of Hormones in Medicine, by N. A. Yudayev. 38 pp. RUSEIAN, bk, Gormony I Zdoroviye, Moscow, 1964, pp 1-40. JPRS 25990 Chemical Prophylaxis of Radiation Injuries, by A. S. Mozzhukhin, F. Yu. Rachinskiy. (SF-3360) RUSSIAN, bk, Khimicheskava Profilaktika Radiatsionnykh Porazheniy, 1964, pp 1-244.

JPRS Oxygon Deficioncy, by A. P. Mekarchesko, 99 pp. RUSSIAN, bk, Kielcrodissya Nedostatochnoste, Kiev, 1963, pp 2-13, 571-610. JPRS 25796 A Cosmonaut Plies -- On Earth, by V. O. Denisen. RUSSIAN, bk, Kosmonavt Lotavet -- na Zemle, Moscow, 1964, 150 pp. Safety in Laboratory Une of Radioactive Substances, by I. A. Reformatakiy, 37 pp. RUSSIAN, bk, Lakaratorii diya Rabot a Radioaktiynymi Yenchesiyami, Moscow, 1963. Radioelectronics in Space Medicine, by I. T. Akulinichev, R. M. Bayevskiy, et al, 51 pp. RUSEAN, pamphlet, <u>Massovaya Radiobiblioteka</u>, <u>Moscow</u>, No 505, 1964. JPRS 26081 Comparison of Different Methods of Virological Investigation of Material for Presence of Tick Encophalitis Virus, by V. S. Erofeyev. RUSSAN, bk, Materials of the Inter-institute Science Conference on Magnesis of Tick Encophalitis, Londontroses Literiogia and Toxoplasmosis, 1963, pp 6-7.
Nili 7-17-64 Section II. Leptospiroses. Use of Precipitation in Gel Test for Diagnosis of Leptospirosos, by V. N. Novikova RUSSIAN, bk. Materials of the inter-institute Science Conference on Diagnosis of Tick Recommission, Leplospiroses, Liseriosis and Toxonissmosis, 1963, pp 37-38.

NIH 7-16-64

Precipitation Test in Gel in the Diagnosis of Listeriosis, by A. A. Tripolitova.
RUSSIAN, bk, Materials of the Inter-Institute Science Conference on Diagnosis of Tick Encephalitis, Leptospiroses, Listeriosis and Toxopiasmosis, 1963, p 48.
NIH 7-15-64

Section III. Listeriosis. Diagnosis of Listeriosis in the Pregnant and Newborn, by A. A. Tripolitova. RUSSIAN, bk. Materials of the Inter-institute Science Conference on Diagnosis of Tick Encopalitis, Laptomotrosce, Listeriosis and Toxoplasmosis, 1963, pp 51-52.

NIH 7-14-64

The Effects of Microorganisms on the Human Body, by V. M. Zemskov, 40 pp. RUSSIAN, bk, <u>Oruzhiyo Nevidimykh Yragov</u>, Moscow, 1904. JPRS 26244

Study on Horzefties, Ticks and Tularemia, by E. N. Pavlovakly, RUSSIAN, rpt, Papers on Experimental Parasitology, 1963, pp 254-256, NIH 7-11-64

Automatic Installation With Program Control for Investigation of Basic Properties and Dynamics of Higher Norvous Activity of Small Animals, by R. L., Sheykin, 16 pp.
RUSSIAN, bk, Paradovov Nauchno-Tekhnicheskiy i Proizvodstvennyy Opyi, Moscow, No 6, 1962, pp 1-12.

pp 1-12.
JPRS 25478

Tok-1 Tele-Ricctrocardiograph for Telemetric Investigation of Cardiac Action Currents in Preely Moving Man, by T. Ye. Timologova, 22 pp. RUSSIAN, bk. Peredovov Nauchne-Tekinicheskiy I Proizvodstvennyy Opyt, Moscow, No 6, 1962, pp 13-27.
JPRS 25478

A Timer a Time Relay, by G. Yc. Demidev, L. S. Shalbalina, o pp. RUSSIAN, bk. Peredovoy Nauchno-Tekhnicheskiy I Proizvodstvennyy Opyt, Moscow, No 6, 1962, pp 28-31. JPRS 25478

Production, Standardization, and Control of Live Vaccine From Strain H, Rickettsia Prowazekii, by H, M, Golinovich, RUSSIAN, bk, <u>Problems of Infectious Pathology and Immunology</u>, Moscow, 1963, pp 187-195.

Live Exanthematous Typhus Vaccine From Strain E. of R. Prowazekii, by B. M. Golinevich.
RUSSIAN, bk, Problems of Infectious Pathology and Immunology, Moscow, 1963, pp 199-211.
NIII 7-26-64

Immunization of People With Live Vaccine From Strain E of Rickettala Prowazekii, by E. M. Golinevich. RUSSIAN, bk, Problems of Infectious Pathology and Immunology, Moscow, 1963, pp 211-220, NH 7-24-64

Protective Mechaniams in Normal Shape Formation, by I. I. Smal<sup>1</sup>gauzen, 5 pp. RUSSIAN, bk, Regulyatsiya Pormoobrazovaniya y Individual'nom Razyitti, Moscow, Chapter VII, 1964, pp 106-110. JPRS 25810

Scientific
Biological & Medical Sciencea (Contd)

Organization of Mechanisms Regulating Shape Formation and the History of Their Development, by f. I. Shmallgauzon, 10 pp. RUSSIAN, bk, Regulyatsiya Formoohrazovaniya y Individual'non, Razvitti, Moscow, Chapter VIII, 1964, pp 111-120.
JPRS 25810

Regulation of Shape Formation at Various Levels of Integration, by I. I. Shmal'gauzen, 7 pp. RUSSIAN, bk, Regulyresiva Formochrazovaniva y Individual'nom Razvirii, Moscow, Chapter IX, 1904, pp 121-126.
JPRS 23810

Regulation of Shape Formation and Stability
Resistance of Organic Forms, by I. I. Shmal'gauzen,
7 pp.
RUSSIAN, bk, Regulyatalya Formochtazovaniya v
Individual'recom HERVIII, MARCOW, Chapter X, 1964,
pp 127-132.

JPRS 25810
Compilation of the Most Important Official Data on

Compilation of the Most Important Official Data on the Problem of Labor Hygiene and Industrial Sanitation by L. V. Yanina.

RUSSIAN, bis, Shornik Yazhmusnikh Ofitaisi nyth Materialov po Vorrosam Gigleny Trudy i Prolavodatve Sanitati, 1962, 220 pp.

AEC-Tr-6467

Provocation Tests for Patients With Allergic Diseases, by Yu. A. Poroshina, N. V. Medunitsyn, 9 pp. RUSSIAN, bk, Soyremennaya Prakticheskaya Allergologiya, Moscow, 1963, pp 329-338. JPRS 26266

Studies in Cytostatic Substances in Chamotherapy, by V. A. Chernov, 55 pp. RUSSIAN, bk, Tattossaticheskiye Yeshchestya y Khimiteterapit Zlokachestyennykh, Moacow, 1964, pp 226-278, 315-319.

JPRS 26247

The influence of Fluorine on the Respiratory and Cardiovascular Systems, by K. A. Kyandaryan, S. L. Yeolyan, 9 pp. RUSSIAN, bk. Voprosy Rentgenologii i Onkologii, Yerevan, Vol VII, 1963, pp 45-51.

JPRS 26278

An Approach to the Problem of Heterotransplantation of Human Tumors, by S. A. Papoyan, I. G. Demirchogiyan, 7 pp. RUSSIAN, bk. Vorrosy Rentenologii i Onkologii. Yerevan, Vol VII, 1963, pp 145-153.

JPRS 20278

The influence of Combined Irradiation on Tissus Respiration, by S. G. Shukuryan, 7 pp. RUSSIAN, bk, Voprosy Rentgenologii i Onkologii, Yerevan, Vol VII, 1963, pp 199-204, JPRS 20278

Medical Control and Therapoutic Physical Culture, by S. M. Ivanov, 112 pp. RUSMAN, bk. Vrachebnyy Kontrol I Lechebnaya Pizkultura, Moscow, 1964, pp 25-61, 118-170, 427-430. JPRS 26080

Permissible Doses and Protection From Nuclear Radiation, by V. A. Baraboy, B. R. Kirichinakiy, 22 pp. RUSSIAN, bk, Yadernyye Izlucheniya v Biologic, Kiov, 1963, pp 81-114. JPRS 29178

The Influence of Antibiotics of the Function of the Adrenal Cortex of Guinea Pigs, by N. A. Ozorotskovskiy, 7 pp. RUSSIAN, per, Antibiotiki, Vol IX, No 6, 1964, pp 528-532. JPRS 26306

The Antibacterial Action of Tetracycline and Puracillin, Individually and Combined, on Pacilius Dysenteriae Sonne and Plexnor in "in Vitro" Experiments, by M. A. Kimulblat, 8 pp. RUSSIAN, per, Antibiotki, Vol IX, No 6, 1964, pp 532-537.

JPRS 26306

Detection of Labelle Ribonucleic Acid in the Nervous System of White Rats, by N. D. Gracheva, 16 pp. RUSSIAN, per, <u>Arkliv Anatom</u>, <u>Gistel i Embriel</u>, No 5, 1964, pp 3-11. JPRS 26042

Histogenesis and Age Changes in the Epithelium of the Large Incestine, by S. M. Tyurin, S. M. Kirov, 12 pp.
RUSSIAN, per, <u>Arkhiv Anatomii</u>, <u>Gistel i Embriel</u>, No 5, 1964, pp 50-57.
JPRS 26080

Zinc in the Human Pancreas, by I. A. Shovchuk, 10 pp.
RUSSIAN, per, Arkhiv Anatomii, Gistol i Embriol, No 5, 1964, pp 83-87.
JPRS 26051

Anions and the Work of Excitable Tissues, by L. M. Tsofin, Yo. A. Liberman, 35 pp. RUSSIAN, per, Biofizika, Vol IX, No 2, 1964, pp 142-254.
JFRS 25652

Tautomor Transformations in Nucleic Acid Components and Their Role in Mutagenesis, by B. I. Sukhorukov, V. I. Poltov, 23 pp. RUSSIAN, por, Biofizika, Vol IX, No 2, 1964, pp 148-159.

JPRS 25652

Investigation of Mechanical Destruction of Gelatins by Electroparamagnetic Resonance, by G. V. Abagyan, P. Yu. Butyagin, 9 pp. RUSSIAN, per, <u>Biofizika</u>, Vol IX, No 2, 1964, pp 180-183, JPRS 25652

The Nature and Mechaniam of Neuron Discharge, by V. V., and Yu. V. Dubikaytis, 16 pp. RUSSIAN, per, <u>Biofizika</u>, Vol IX, No 2, 1964, pp 204-209.
JPRS 25652

Cooling of Blood Solutions of Patients With Malignant Neoplasms in a High Prequency Electric Field, by V. K. Ikach, 15 pp. RUSSIAN, per, Biofizika, Voi IX, No 2, 1964, pp 210-216, JPRS 25652

Ricctrophysiologic Investigation of Prog Olfactory Epithelium, by A. L. Byzov, G. I. Plerov, 8 pp. RUSSIAN, per, <u>Biofizika</u>, Vol IX, No 2, 1964, pp 217-225. JPRS 25652

Coordinate Structure of Human Ballistic Movement and Questions of its Central Regulation, by L. V. Ohkhaidze, 13 pp. RUSSIAN, per, <u>Biofizika</u>, Vol IX, No 2, 1964, pp 233-236, JPRS 25052 Scientific Biological & Medical Sciences (Contd)

Embryonic Serum Alpha-Globulin and Its Synthesis by Transplantable Mouse Hepatomas, by G. I. Alcelev. RUSSIAN, per, <u>Blokhimiva</u>, Vol XXVIII, No 4, 1963, pp 625-634. NIH 7-30-64

Participation of Both Strands of DNA in Transfer of Genetic Information, by S. Ye. Bresler, R. A. Kreneva, et al, 15 pp.
RUSSIAN, por, Blokhimiya, Vol XXIX, No 3, 1964, pp 477-486.
JPRS 25677

Epidemiology and Statistics of Tuberculosis, by S. Massino, 16 pp. RUSSIAN, por, Bol<sup>2</sup>ahaya Medit Entatklopodiya, Vol XXXII, 1963, pp 941-954.
JPRS 25873

The Effect of Visual Analysor Adaptation on the Function of Cutaneous the Thermoreceptors in Man, by L. M. Kurilovs, P. G. Sayakin, 7 pp. RUSSIAN, per, Byul Ekspor Biol i Medit, Vol LVII, No 3, 1964, pp 3-5.

JPRS 25464

The Effect of Antiblotic Therapy on the Content of Serotonia and Histamine in the Blood and Organs of Irradiated Rabbits, by Z. A. Poponenkova, Kh. Kh. Planoilyes, o pp. RUSSIAN, per, lyul Eksper Biol i Medit, Vol I.VII, No 3, 1964, pp. 59-61.

JPRS 25464

Sr<sup>90</sup> and Ca<sup>45</sup> Passage Through the Placenta of Rats, by Yu. D. Parfenov, A. A. Yusupov, 8 pp. RUSSIAN, por, Byul Bksper Biol 1 Mcdit. Vol LVII, No 3, 1964, pp 67-70.

JPRS 25464

Rifect of Anti-Irradiated Tumor Timbue Serum on the Mitotic Activity of the Rhrlich Adenocarcinoma, by 3, V. Sukhorukikh, I. N. Mayakiy, 9 pp. RUSSAN, per, Byd Eksper Biol i Medit. Vol LVII, No 3, 1964, pp 82-85.

JPRS 25404

Non-Uniformity of the Process of Fromitotic DNA Reduplication in the Colls of Mammals According to Cytospectrophotometric Data, by V. Ya, Brodskiy, M. S. Mitakovich, 8 pp. RUSSIAN, per, Byul Bksper Biol i Medita Vol LVII, No 3, 1964, pp 94-97.

JPRS 25464

Mothod of Separate Graphic Recording of Ohmic and Capacitance Components of Biectric Realstance in a Section of Pulmonary Tissue in Man, by B. I. Mazhbich, T. S. Vinogradova, 9 pp. RUSSIAN, per, liyul Ekspor Biol 1 Medita. Vol I.VII, No 3, 1964, pp 121-125.

JPRS 25464

Generation of Action Potentials in Single Ranvier Nodes in Isolated Frog Nerve Fibers During Action of Nickol and Cadmium Ions, by B. I. Khodorov, V. I. Helysyev, 8 pp. RUSSIAN, per, Byul Eksper Biolog i Medit, Vol LVII, No 4, 1964, pp 3-8. JPRS 25823

Data on Physiology of Parietal Digestion, Comparison of Hydrolysis of Starch in the Intestine With in Viru Spectrophotometry of Iodine-Starch Complexes, by A. M. Ugolev, M. K. Marauska, 6 pp.
RUSSIAN, per, Byul Eksper Biolog 1 Medit, Vol XVII, No 4, 1964, pp 16-19.

JPRS 25623

Plasma Nonesterified Patty Acids in Rats Subjected to Gravitational Acceleration, by A. A. Gyurdzinan, M. A. Lomova, et al, 6 pp. RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLI, No 4, 1963, pp 982-986. 9223418 NASA TT F-197

Characteristics of R-RNA and D-RNA of the Nucleolochromosomal Apparatus of an Animal Cell, by G. P. Georgiyev, O. P. Samarina, 6 pp. RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLV, No 3, 1964, pp 688-690, JPRS 25824

The Role of DNA-Dependent Synthesis of RNA in the Activation of the Genetic Apparatus of Differentiated Cells Daring an Increase in Thoir Physiological Function, by F. Z. Meyerson, N. S. Kalebina, 9 pp. RUSSIAN, per, DAR Nauk SSSR, Vol CI V, No 3, 1964, pp 698-70T.

JPRS 25824

Synchronous and Consecutive Information Processing in the Visual System, by V. D. Glezer, A. A. Nevskaya, 7 pp. RUSSIAN, por, <u>Dok Ak Nauk SSSR</u>, Vol CI.V, No 3, 1964, pp 711-714.

JPRS 25824

Normal Activity of an Electric Systole in Humans, by Ye. B. Babskiy, V. L. Karpman, et al. RUSSIAN, per, Dok Ak Nauk SSSR. Vol Cl.-YI, No 6, 1964, pp 1472-1475.

\*NASA TT F-264

Largo Scalo Chemistry and Problems of Hygiene, by G. Kh. Shakhbazyan, 8 pp. RUSSIAN, por, Gig i Sant, Vol XXIX, No 4, 1964, pp 3-8. JPRS 26305

The Influence of Intense Noise on Certain Punctions of the Organism, by A. B. Strakhov, 12 pp. RUSSIAN, per, Gig 1 Sant, Vol XXIX, No 4, 1964, pp 29-36. JPRS 26305

Cortain Aspects of the Biological Action of Ultrasoldes in Connection With its Application in Industry, by S. I. Gorshkov, O. N. Gorbinov, et al, 9 pp.
RUSSIAN, per, Gig i sani, Vol XXIX, No 4, 1964, pp 37-42.
JPRS 26305

A Gerontological Map of the Rumanian People's Republic, by A. Chuka, R. Kres, et al, 10 pp. RUSSIAN, per, Glg. 1 Sant, Vol XXIX, No 4, 1964, pp 58-64.
JPRS 26305

Large-Scale Chemical Industry and Basic Problems of Hygionic Science, by V. A. Pokrovskiy, 5 pp. RUSSIAN, per, <u>Gigt I Sanl</u>, Vol XXIX, No 5, 1964, pp 3-6, JPRS 20082

Hygienic Appraisal of New Housing Construction in Villages of the Ukrainian Soviet Socialist Republic, by K. I. Stankevich, D. N. Kalyuzhnyy, et al., 5 pp.
RUSSIAN, per, Gigt i Sani, Vol XXIX, No 5, 1964, pp 10-13.
FPRS 20082

Scientific Biological & Medical Sciences (Contd)

The Experience of Preventtive Medical Supervision During the Construction of a New City, by Ye. T. Chernyakova, 5 pp. RUSSIAN, per, Gigi 1 Sant, Vol XXIX, No 5, 1964, pp 70-73.

JPRS 26082

Data on the Effect of Oxides of the Rare-Harth Metals on the Organism, by N. V. Mezentseva, O. Ya. Mogilevskaya, et al, 8 pp. RUSSIAN, per, Gigl i Sani, Voi XXIX, No 5, 1964, pp 97-100.

JPRS 26082

Successful Fulfillment of the CPSJ Program in the Field of Public Health, by N. A. Vinogradov, 8 pp.
RIJSSIAN, per, Gigt I Sant, Vol XXIX, No 6, 1964, pp 3-9.
JPRS 20213

Problems of Bera-Radiation at the First Atomic Power Station, by I. G. Prostakova, M. S. Yegorov, 5 pp.
RUSSIAN, per, Gig. Trud i Professional Zabol, Vol VII, No 6, 1984, pp 7-9.
JPRS 20068

Material on Hygienic Characteristics of Industrial Rhemium Aorosol, by S. V. Suvorov, 7 pp..
RUSSIAN, per, Gig. Trud i Professional Zabol, Vol VII, No 6, 1964, pp 10-13.
JPRS 26069

Action Potentials of Vestibular Neutons In Cats, by O. G. Gazenko, Yu. P. Limanskiy, 5 pp. RUSSIAN, per J. At Nauk SSSR Serva Biol, No 6, 1962, pp 925-928, JPRS 25896

Certain Results of and Long-ferm Prospects for the Development of Radioblological Research in Space, by N. M. Sisakyan, V. V. Parin, 15 pp. RUSSIAN, per, Iz Ak Nauk SSSR Soriva Higi. No 3, May/Jun 1964, pp 341-351. JPRS 25844

Blood Circulation Under Conditions of Weightlessnean by I. I. Kus<sup>1</sup>yan V. I. Kopanev, 26 pp. RUSSIAN, per, Iz Ak Nauk SSSR, Seriya Bul. No 3, MayJun 1964, pp 352–368. JPRS 25844

Sensitivity of Vestibular Analyzers and Sensory Reactions in Man During Brief Weightlesuness, 10 pp. RUSSIAN, por, Iz Ak Nauk SSSR Seriya Biol. No 3, May/Jun 1904, pp. 369-375. JPRS 25844

Application of Polarographic Method of Determination of Oxygen Tension in Thomas of Brain During High-Altitude Plight, by Ye. A. Kovalenko, V. L. Popkov, 17 pp. PUSSIAN, per, Iz Ak Nauk SSSR, Seriya Blol, No 3, MayyJun 1904, pp. 376-387, JPRS 25844

In Surgery Jumified for the Freatment of Spinal Fractures, by Ya. L. Tstviyae, 16 pp. RUSSIAN, per, Khirurgiya, Vol XI., No X, 1964, pp 20-28. JPRS 2586

Errors and Complications in Osteosynthesis of Long Bones With Metal Devices, by G. S. Yumashev, 9 pp. RUSSIAN, per, <u>Khirurgiya</u>, Vol XL, No 5, 1964, pp 52-58. JPRS 25586

Possibility of Transplanting Extremities in Clinical Practice, by A. G. Lapchinskiy, 15 pp. RUSSIAN, per, Khirurgiya, Vol XL, No 5, 1964, pp 75-83.

JPRS 25386

Narcotization of Mosquitoes With Carbon Dioxide, by E. I. Kallchenko. RUSSIAN, per, <u>Medit Parazital i Parazit Bolezni</u>, Voi XXX, No 5, 1961, p 621. NH 7-18-64

Distribution of Echinococcosis and Aiveococcosis in the Azerbaijan SSR, by M, M, Mamedov, 7 pp. RUSSIAN, por, Medit Perazitol i Parazit Bolezne, Vol XXXIII, No 3, May, Jun 1964, pp 278-283.

JPRS 26035

UTP-IP Portable Apparatus for Ultrasonic Therapy, by B. I. Minchenkova, G. Yo. Demidov, 5 pp. RUSSIAN, per, Medit Prom, Vol XVIII, No 2, 1964, pp 46-49.

JPRS 25533

UM2-2 Type Ultrasonic Installation for Cleaning Medical Instruments, by G. D. Lubyanitakly, 7 pp. RUSSIAN, per, Medit Prom. Vol XVIII, No 2, 1964, pp 49-53, JPRS 25533

Hiertric Parameters of Biological Tissue in the Microwavo Range, by A. R. Livenson, 9 pp. RUSSIAN, per, Medit Prom. Vol XVIII, No 6, 1964, pp 14-20.

JPRS 26191

Influence of Mexamine on the Course of General Reaction of the Organism of Patients Subjected to Radiation Thorapy, by A. N. Gainsloya, M. D. Donakoy, et al, 8 pp. RUSSIAN, per, Medit Radiol, Vol IX, No 3, 1964, pp 18-10. JPRS 20216

Changes in Fractional Composition and Colloidal Stability of Sorum Proteins in Rabbit Blood in Radiation Sickness, by Yu. M. Madiyevskiy, 9 pp. RUSSIAN, per, Modit Radiol, Vol IX, No 5, 1965, pp 24-29.

JPRS 26216

Reaction of Spicen, Lymph Nodes and Loose Connecting Tissue to Antigenic Stimuli in Irradiated Animals, by V. V. Shikhodyrov, N. N. Klemparskaya, 11 pp. RUSSIAN, por, Medit Radiol, Vol IX, No 5, 1964, pp 29-34
JPRS 26216

Bifect of Unithiol Upon Course of Acute Uranium intextcation, by A. T. Ivannikov, 9 pp. RUSSIAN, per, Medit Radiol, Vol IX, No 5, 1964, pp 45-50, JPRS 26216

Remote Immunologic Consequences of Effect of lonizing Radiation, by P. N. Kiselev, P. A. Buzini, 13 pp. RUSSIAN, per, Medit Radiol, Vol IX, No 5, 1964, pp 50-58.

JPRS 26261

Radiosensitivity of Mice After Spienectomy and Application of Homogenate of Spiece Tiesue in Chronic Radiation Sickness, by K. I., Kovalevskiy, 7 pp. RUSSIAN, per, Medit Radio, Vol IX, No 5, 1964, pp 58-62, JPRS 26216

Scientific

Biological & Medical Sciences (Contd)

A Health Code for the Builder of Communism, by Boris Vasilfyevich Petrovskiy, 6 pp. RUSSIAN, per, Nauka i Zhizni, Vol XXX, No 2 1964, pp 2-5, 25.

JPRS 25506

Man and the City, by V. Faloyov, 8 pp. RUSSIAN, por, Nauka i Zhizn', Vol XXX, No 2, 1964, pp 10-13, 18, JPRS 25506

Morning Health Exercises, by A. Trankvillitati, 10 pp.
RUSSIAN, per, Nauku 1 Zhizn<sup>4</sup>, Vol XXX, No 2, 1964, pp 14-17; 34-36; 58-62.
JPRS 25506

Physical Activity a Health Prerequisite, by V. Parin, B pp. RUSGAN, per, Nauka i Phizn, Vol XXX, No 2, 1964, pp 14-18. JPRS 25506

Outlook for a Young Science, by I, Roshchin, 5 pp.
RUSSIAN, per, Nauka i Zhizn<sup>2</sup>, Vol XXX, No 2, 1964, pp 22-24.
JPRS 25500

Man at a Control Dosk, by K. Levitin, A. Melamed, 9 pp. RUSSIAN, por, <u>Nauka i Zhizn</u>, Vol XXX, No 2, 1964, pp 26-30. JPRS 25206

The Geography of Longevity, by N. Sachuk, 5 pp. RUSSIAN, per, Nauka i Zhizni, Vol XXX, No 2, 1964, pp 31, 32.

JPRS 25506

Self-Regulation and the Aging of the Posty, by Profikia, 9 pp.
RUSSIAN, per, Nauka i Zhizni, Vol XXX, No 2, 1964, pp. 33-30; 44, 45
JPRS 25506

The Cosmic Horizons of Anabiosis, by N. Timofoyev, 6 pp. RUSSIAN, per, Nauka i Whizn<sup>4</sup>, Voi XXX, No 2, 1964, pp. 54-57, JPRS 25506

Gerontology and Physical Culture, by I, Muravov, 7 pp. RUSSIAN, per, Nauka I Zhizni, Vol XXX, No 2, 1964, pp 58-63. JPRS 25506

Molecular Aging of the Body, by Zh. Medvedev, 6 pp. RUSSIAN, per, Nauka i Zhizn<sup>3</sup>, Vol XXX, No 2, 1964, pp 64-66.
JPRS 25506

Chromosome Discases, by Yu. Shishins, 8 pp. RUSSIAN, per, Nauka i Zhizne, Vol XXX, No 2, 1964, pp 68-72, JPRS 25506

Bacteria From the Mayan Burial Grounds, by Ye. Nikolayev, 5 pp. RUSSIAN, per, Nauka i Zhizni, Vol XXX, No 2, 1964, pp 86-88. JPRS 25506

The Secrets of Their Longevity, by I. Khalifman, 11 pp.
RUSSIAN, per, Nauka i Zhizni, Vol XXX, No 2, 1964, pp 80-85, 89.
JPRS 25506

Hypnosis Found Useful in Pedagogy, by V. Zukhari, I. Pshkina, 7 pp.
RUSSIAN, per, Nauka i Zhizni, Vol XXX, No 4, 1964, pp 00-62.
JPRS 26085

Occult Sciences and Yoga Ridiculed, by Arkadiy Averchenko, 11 pp. RUSSIAN, per, Nauka i Zhizni, Yol XXX, No 4, 1964, pp. 64-69. JPRS 26085

Child Training Toward Civic Duties Discussed, by Y. M. Bekhterev, 9 pp. RUSSIAN, per, Nauka i Zhizni, Yoi XXX, No 4, 1964, pp 78-82

Research on the Growth Hormone Lauded, by I. Eakin, 5 pp.
RUSSIAN, per, <u>Nauka i Zhizni</u>, Yel XXX, No 4, 1964, pp 93-96.
JPRS 26085

An Rifective Grop Growth Stimulator From Petroloum-Refining Waste, by I. Kh. Arutyunov, A. I. Stolov, et al, 6 pp. RUSSIAN, per, Noftepergrabotka i Neftekhim, No 11, 1963, pp 22-24.

JPRS 25529

Technology of Production of Petroleum Growth Substance, by M. G. Shakhi-Zade, 6 pp. RUSSIAN, per, Nottopergraborka i Nottekhim, No 11, 1964, pp 24-27.

JPRS 25529

The Economic Significance of the World Ocean, by S. V. Mikhaylov, 19 pp. RUSSIAN, por, Okeanologiya, Vol IV, No 3, 1964, pp 369-379.
JPRS 25966

Sciontium-90 in the Surface Waters of the Indian Ocean in 1960-1961, by N. I. Popov, V. M. Orlov, et al, 8 pp. RUSSIAN, per, Okeanologiya, Vol IV, No 3, 1964, pp 418-422.
JPRS 25966

The Problems of Radiocomogy of Hypeneuston, by Yu. P. Zaytsev, G. G. Polikarpov, 14 pp. RUSSIAN, per, Okoanologiya, Vol IV, No 3, 1964, pp 423-430, JPRS 25966

Radiation Conditions in the Pishery Regions of the North Atlantic Jun-August 1961, by A. P. Pederov, V. N. Podymakhin, et al, 11 pp. RUSSIAN, per, Okcanologiya, Vol IV, No 3, 1964, pp 431-436. JPRS 25966

The Photosynthesis of Marine Phytopiankton at Various Depths, by Yu. G. Kabanova, O. I. Kohlenta-Mishko, et al, 19 pp. RUSSAN, por, <u>Qkeanologiya</u>, Vol IV, No 3, 1964, pp 516-527, JPRS 25966

On the Relation of the Size of Water Areas to Some Distinctive Characteristics of Fauna in Brackish Waters, by A. A. Chislenko, 16 pp. RUSSIAN, per, Okeanologiya, Vol IV, No 3, 1904, pp 528-534, JPRS 25966

Scientific
Biological & Medical Sciences (Contd)

Transplantation of Hone Tissue, by I. L. Krupke, 10 pp.
RUSSIAN, per, <u>Ortoped Traymatolog i Protezirov</u>, No 4, 1964, pp 3-9.
JPRS 25719

Method of Replacing the Distal Articular End of the Humerus, by P. P. Kovalenko, 7 pp. RUSSIAN, per, Ortoped Travmatolog 1 Protezirov, Vol XXV, No 4, 1964, pp 9-14.

JPRS 25719

The Fate of a Homogeneus Cartilaginous Graft Deprived of Fatt of the Protein-Polysaccharide Complex of the Matrix, by R. Klen, J. Jiranek, 8 pp.
RUSSIAN, per, Ortoped Traymatolog i Protezirov, Vol XXV, No 4, 1964, pp 13-17.
JPRS 25719

The Fate of a Joint Homograft Depending on the Perioda of Lov-Temperature Storage of II, by A. S. Imamaliyev, M. N. Pavlova, B pp. RUSSIAN, per, Ortoped Traymatolog ! Proteztrov, Vol XXV, No 4, 1964, pp 18-22.

JPRS 25719

Characteristics of the Process of Acceptance of Bone Grafts Free and on Nutriont Muscle Pedicles, by V. I. Fishkin, A. M. Gladkova, et al, 3 pp. RUSSIAN, per, Ortoped Traymatolog i Protezirov, Vol XXV, No 4, 1965, pp 22-24. JPRS 25719

Vascularization of a Bone Autograft during Pixation of the Spinal Column in an Experiment, by N. A. Sovetova, 7 pp. RUSSIAN, per, Ortopod Travmatolog i Protezirov, Vol XXV, No 4, 1965, pp 25-29.

JPRS 28719

Experiment Hemotransplantation of Fetal Hene, by L. I. Kostandyan, 7 pp.
RUSSIAN, per, Ortoped Travmatolog i Protezirov,
Vol XXV, No 4, 1964, pp. 29-33.
JPRS 25719

The Use of Reta-Proplelacione for Scirilization of Some Tissue Transplants, by V. M. Mel'ntkova, G. P. Relikov, et al. 6 pp.
RUSSIAN, per, Ortoped Traymatolog 1 Protextroy, Vol XXV, No 4, 1964, pp 33-36.

JPRS 25719

Intracardiac Investigation of Blood Prossure and Phonocardiogram in Experiment With New Soviet Apparatus, by N. S. Dzhavadyan, L. N. Ivanova, 5 pp.

RUSSIAN, per. Patolog Piz i Respect Totapiya, Vol VII, No 2, 1963, pp. 78-80, JPRS 25897

Proteins, Glycoproteins, and Lipoproteins of Blood Scrum in Multiple Mycloma and Waldenstrom<sup>8</sup>s Macroglobulinomis, by N. Ye, Andreyevs, E. A. 10ffe, 9 pp. RUSGAN, per, <u>Problemy Gernatol I Perelly Krovi</u>, Vol IX, No 6, 1964, pp 18 23.

Statistical Data on the Incidence of Leukemia in the Irkutaknya Ohlasti, by K. R. Sedov, A. Ya. Yoskremenskaya, et al. 10 pp. RUSSIAN, per. Problemy Gernatol I Percity Krovi, Vol IX, No 6, 1964, pp. 34-37. JPRS 25786

The Loss of Spiny Sturgeon in the Aral Sea in 1936, by V. Dogel', A. Lutte.
RUSSIAN, per, Rybnoc Khoz, No 12, 1937, pp 26-27.
\*Pisheries Research
Board of Canada,
Orrawa

On the Fulfillment of Tasks Dealing With Creation and Adoption of New Equipment and Techniques in the Pishing Industry in 1964-1965, by Ye. G. Paviov, 14 pp. RUSSIAN, per, Rybnoyo Khoz, No 3, 1964, pp 3-7.

JPSS 25843

Pinhing Industry of Peru, by A. B. Kuz<sup>\*</sup>michev, 13 pp.
RUSSIAN, per, <u>Rybnoye Khoz</u>, No 3, 1964, pp 79-83.
JPRS 25843

Remarks on the Textbook of V, N, Voynikanis-Mirskiy Entitled "Technology of Industrial Fishery and Marine-Animal Industry, by V, V, Borishchev, 10 pp, RUSSIAN, per, Rybnoye Khoz, No 3, 1964, pp 90-92, JPRS 25843

Basic Trends of Technical Progress in the Pishing Industry for 1966-1970, 9 pp. RUSSIAN, per, <u>Rybnoyo Khoz</u>, No 4, 1964, pp 3-7. JPRS 25381

The Biology and Fishery of the Principal Pish of the South Atlantic, by S. O. Overko, 7 pp. RUSSIAN, per, Rybnoyo Khoz, No 4, 1964, pp 13-16.

JPRS 25581

The Use of Electric Current in Catching Scals, by B. I. Badamshin, V. N. Lukashev, et al, 9 pp.
RUSSIAN, per, <u>Bybnoye Khoz</u>, No. 4, 1964, pp.51-53, JPRS 25581

Agar From the Black Sea Algae Gelidium, by A.A. Kalugina, V. S. Gryuner, et al, 5 pp. RUSSIAN, per, <u>Rybnoye Khoz</u>, No 4, 1964, pp 68-70. JPRS 25581

The Pishing Industry of the USA, by A. B. Kuz\*michev, 9 pp. RUSSIAN, per, Rybnoye Knoz, No 4, 1964, pp 82-86.
JPRS 25581

Conference of the Active Members of the Workers of the Fishing Industry in the Far Rast, 6 pp. RUSSIAN, per, <u>Rybnoye Khoz</u>, No 4, 1964, pp 91, 92. JPRS 25581

Chemical Composition and Comparative Evaluation of Whale Meat Used for Food, by V. A. Makarov, 6 pp. RUSSIAN, per, <u>Rybnoye Khoz</u>, No 5, 1964, pp 63-65.
JPRS 25843

Results and Problems in Promoting Fish Breeding in Ponds, by K. Babayan, 6 pp.
RUSSIAN, per, Rybovod i Rybolov,
No 2, 1964, pp. 4-8.
JPRS 26118

Scientific Biological & Medical Sciences (Contd)

Pisciculture a Companion of Irrigation, by K. Kornev, 8 pp.
RUSSIAN, per, Rybovodstvo i Rybolovstvo, No 3, 1904, pp 2-4.
JPRS 26118

The Activity of the Methodical Room of the Central District Hospital, by N. A. lozhitsa, D. M. Gindentuler 7 pp.
RUSSIAN, per, Sovetskoye Zdravookhraneniye,
Vol XIII, No 5, 1964, pp 3-8.
JPRS 25882

The Tasks of Methodical Departments of Scientific Research Institutes, by I. A. Ryvkin, 5 pp.
RUSSIAN, per, Sovetskove Zdravockhranentye, Vol XXII, No 5, 1904, pp 14-17.
JPRS 25882

The Main Principles of Soviet Public Health During Large-Scale Building of Communism, by D. P. Belyatakiy, 5 pp. RUSSIAN, per., Sovetskoye Zdrayockhraneniye, Vol XXIII, No 5, 1964, pp 22-25. JPRS 25882

Experience in Ideological Work in Medical Institutions of MoSSR, by V. I. Zakharov, I. F. Prisakar<sup>†</sup>, o pp. RUSSIAN, per, Sovet Zdravookh, No o, 1964, pp 3-8. JPRS 23983

Ideological Training of Students the Most Important Division of Work of the Higher Medical Rducational Institute, by V. D. Bratus<sup>2</sup>, N. F. Dantievskiy, 7 pp. RUSSIAN, per, Sovet Zdravockh, Na 6, 1964, pp. 8-13.

JPRN 23983

Increase in the Life Expectancy of the Population of the USSR, by A. M. Vostrikova, 8 pp. RUSSIAN, per, Sovet Zdravockh, No. 6, 1964, pp. 14-19.
JPRS 25983

Effect of Varying Illumination on the Accessibility of Feed Organisms for Certain Pish, by I. I. Girsa. RUSSIAN, per, Trudy Inst Merfelouti Zhiyotnykh. Ak Nguk SSR, No 13, 1960, pp i18-128. Pisherios Research Issard of Canada, Biol Stations

Notes on the Fauna of the Breeding Neats of Pink Salmon in Rast Murman Rivers, by A. V. Astafeva, RUSSIAN, per, Trudy Murmanskogo Murskogo Bioling, No 5(9), 1964, pp 148~153. \*Fisheries Research Board of Canada, Ottawa

Morphological Changes of the Fish Issue Around the Larvae of Some Parastiti. Worms, by I. G. Mikhaylova, E. V. Prazdnikov. RUSSIAN, per, Trudy Murmannkogo Morakego Hologicheskogo Inst., No 5(9), 1964, pp. 231-264.

Pluherica Research Board of Canada,

On the Formation of Capsules of Anisakis sp. Larvae In the Fissues of Myoxos ephalus Scorplus, by F. C. Prunevich.
RUSSIAN, per, Lrudy Mormanskego Morskogo Hiolosteheskogo Ligi, No 5(9), 1964, pp. 265-273.
Fisherica Research Board of Canada, Outawa

Molecular Distillation of Vitamin A From Pats of Marine Animals, by S. I. Maksimov. RUSSIAN, per, Trudy Yses Nauchno-Issied Inst. Morskogo Rybnoso Khoz i Ckeano, Vol XLV, 1962, pp 88-95. Essisteries Research hoard of Canada, Tech Stations

Nature of Antiradiation Effect of Inert Gases and Low-Molecular Narcottea I. Influence of Monatomic Gases and Low-Molecular Narcottes Upon Cytogenetic Effect of X-Ray Irradiation, by V. P. Paribok, G. P. Krupnova, 10 pp. RUSSIAN, per, Teitologiya, Vol VI, No 2, 1964, pp 162-167.

JPRS 25703

Nature of Antiradiation Effect of Inert Ganes and Low-Molecular Narcottes II, Influence of Cold and KCN on Antiradiation Effect of Compressed Nitrogen, by V. S. Kal'niy, V. P. Partibok, 8 pp. RUSSIAN, per, Tsitologiya, Vol VI, No 2, 1964, pp 222-225.

JPRS 25703

Effect of Cortisone on the Metabolism of Ribonucleic Acid and Its Nucleotides in Liver Development, by Ts. M. Sheroshavakays, 16 pp. RUSSIAN, por, Ukrayn Biokhim Zhur, Vol XXXV, No 5, 1963, pp 558-667. 9223420 NASA TT F-224

Problems in Some Subdivisions of Biological Science in the Light of Resolutions of the December Plenum of the Central Committee of the CPSU, by L. D., Yurkevich, L. P., Smalyak, 15 pp. RUSSIAN, per, Yest Ak Nayuk itelacusukay SSR, Seriya Biyalahichnykh Nayuk, No 1, 1964, pp 3-14.

JPRS 25812

Some Problems in the Theory of Anesthesia, by N. M. Amosov, 14 pp. RUSSIAN, per, <u>Yestnik Khirurnii</u>, No 4, 1963, pp 73-82. JPRS 25793

Use of Urea for 1 catment of Impairment of the Red etery Function of the Kidneys in Hurns, by P. M. Fedonyuk, 11 pp. RUSSIAN, per, Vestnik Khirurgii imeni I. I. Grekova, Vol XCII, No 5, 1964, pp. 37-43. 1786 23928

Role of Chemicals in the Fishing Infstry, by G. S. Karzinkin, 10 pp. RUSSIAN, per, Vopcosy ikhtiolog, Vol IV, NO 2311, 1964, pp 201-210. JPRS 25993

Some Data on the Development and Condition of the World Fishing Industry, by P. A. Moiseyev, 17 pp.
RUSSIAN, per, Voprosy Ikhtiolog, Vol IV,
No 2, 1964, pp 211-225.
JPRS 25993

Ichthyological Sampling for Estimation of Fish Pepulation Dynamics, by T. F. Dement'yeva, RUSSIAN, per, <u>Voprosy Ikhtiologii</u>, Vol IV, No 2(31), 1964, pp 226-232. \*Fisheries Research Inst, Uni of Wantington, Scattle Scientifi Biological & Medical Sciences (Contd)

Peculiarities in Abundance Dynamics of Pacific Ocean Humback Salmon Oncorbynchus Gorbuscha Walbaum, by Ye, Ye, Lapin, 12 pp. RUSSIAN, per. Voprosy <u>likhtiolog.</u> Vol IV, No 2(31), 1964, pp 233-242, JPRS 25993

Results of Microwave Treatment of Some Diseases, by L. Nikolova-Troyeva, 5 pp, RUSSIAN, per, Yoptosy Kurottol, Fiziotersp, 1 Lechob Fiz Kultury, Vol XXIX, No 3, May, Jun 1964, pp 230-242.

JPRS 26038

Utilization of Enzymes for the Detection of Biologically Harmful Agents, by A. A. Pokrovsky, 9 pp. RUSSIAN, per, Vopiosy Medit Khum, Vol IV, No 6, Jul, Aug 1958, pp. 202-205.

Riestrophoretic Separation of Soluble Liver Proteins of Animals With Transplanted Tumors, by T. A. Goryukhina, 10 pp. RUSSIAN, per, Voprosy Onkologii, Vol X, No 5, 1964, pp. 44-40. JPRS 25946

Experience in the Imployment of Antiblotic 2703 in Six Cases of Chorionepithelloma of the literus, by N. M. Ayabinder, V. M. Dil<sup>3</sup>man, et al., 14 pp.
RUSSIAN, per, Voprosy Onkologit, Vol X.
No 5, 1964, pp 103-107,
JPRS 25946

The Socio-Phychological Apprainal of Temperameer Features, by A. I. 119na, 11 pp. RUSSIAN, per, <u>Vopross, Palkh</u>, No. 3, 1963, pp. 47-53, JPRS 26014

Apparatus for Recording Motor and Sensory Acts of the Operator in Automatic and Semi-Automatic Control Systems, by Ye, S. Zavlyaiov, A. P. Kuzlminov, et al, 6 pp. RUSSIAN, per, Voprosy Paikla No 3, 1961, pp 130-133, JPRS 26014

Miniogical Rifes to of Gravitational Acceleration, by Ye. A. Derevyanto, V. G. Myl<sup>1</sup>ntkov, 16 pp. RUSSIAN, per, Voprosy Patkindogii, Vol X. Ro 3, May-Jun 1964, pp. 131-130, JPRS 25929

Experimental Methods. An Experimental Apparatus for Studying the Influence of Various Visual Signalling Parameters on the Effectiveness of Motor Reactions, by V. N. Antonov, V. V. Lepeshkin, et al, 5 pp. RUSSIAN, per, Voprony Psikh, No. 3, 1963, pp. 134-136, JPRS 20014

Discussions and Considerations. Is an Algorithmic Approach to the Analysis of Learning Processes Valid, by N. G., Alckseyev, 13 pp.
RUSSIAN, per, Voncoay Psikh, No 3, 1963, pp 137-142.
JPRS 20014

Conference on Problems of Social Psychology, by B. D. Parygin, 6 pp. RUSSIAN, per, Voprosy Psikh, No 3, 1903, pp. 181-183, JPR - 26014

Problem of Oncogenic Properties of Viruses, by V. A. Parnes, 15 pp. RUSSIAN, per, Yoprosy Virusologii, Vol IX, No 3, May/Jun 1964, pp 259-268.
JPRS 25881

Bionics in Military Technology, by N. Bolgarov, 6 pp. RUSSIAN, per, Voyennyye Znaniya, No 11, 1963, pp 21, 22. JPRS 26018

Human Health and the Laws of Biology and Sociology, by Ye Ya. Helitakaya, 5 pp. RUSSIAN, per, Zdravookh Rossiy Federat, Vol VIII, No 5, 1964, pp 4-8.

JPRS 26015

Analysis of the Production Process in Populations of the Simplest Structure, by N. Yu. Bekman, V. V. Menshurkin, 18 pp.
RUSSIAN, per, Zhur Obsheh Biolog, Vol XXV,
No 3, May, Jun 1964, pp 177-187.
JPRS 26245

Characteristics of the System of Sodium and Lithium Transport Through the Wall of the Frog Bladder, by V. G. Leontlyev, Yu. V. Natochin, 11 pp. RUSSIAN, por, Zhur Obsh Biolog, Vol XXV, No 3, May, Jun 1904, pp 210-216.

JPRS 26246

Ricetron Microscopic Study of Myofilaments of the Striated Muscle Fiber, by V. P. Gilev, 9 pp. RUSSIAN, per, Zhur Obshch Biolog. Vol XXV, No 3, May, Jun 1964, pp 217-223.

JPRS 26246

The Effect of a Permanent Magnetic Field on the Motor Activity of Birds, by A. L., El'darov, Yu. A. Kholodov, 9 pp., RUSSIAN, per, Zhur Obsheh Biolog, Vol XXV, No 3, May, Jun 1964, pp 224-229. IPRS 26246

Study of the Dynamics of the Frequency-Specific Reaction of Brain and Retina Biopotentials to Prolonged Photic Stimulation by the Correlation Analysis Method, by N. N. Danilova, 15 pp. RUSSIAN, por, Zhur Yyssh Nervnoy Doyatel, VOI XIV, No 3, 1964, pp 377-386.

JPRS 26060

Influence of the School Day on Perception of Time, by A. S. Dmitriyev, A. P. Ozhigova, 13 pp. RUSSIAN, por, Zhur Vyssh Norvney Deyatel, Vol XIV, No 3, 1964, pp 417-425. JPRS 26060

Exction of the Orienting Reaction After Cutting and Removing the Auditory Cortex, by M. M. Karlmova, D. M. Bowden, et al, 11 pp. RUSSIAN, per, Zhur Yyash Nervnoy Deyatel, Vol XIV, No 3, 1964, pp 459-467.

JPRS 26060

Physiological Significance of the Rhythm and Intensity Components of the Acoustic Pool Conditioned Reflex, by V. 1. Syrenskiy, 6 pp. RUSSIAN, per, Zhur Yysski Nervnoy Deyatel, Vol XIV, No 3, 1964, pp 475-479, JPRS 26060

Scientific Biological & Medical Sciences (Contd)

Relationship Between the Primary Response of the Aufliory Cortex in Wakeful Cats and the Time Parameters of the Signal, by G. V. Gerahmi, I. A. Shovelev, 12 pp. RUSSAN, per, Zhur Vysan Nervney Devatel, VOI XIV, No 3, 1964, pp 489-497.

JPRS 26060

Influence of Removal of the Rabbit Cortical Visual Projection Zone on Responses of the Lateral Geniculate Body, by P. P. Gustaon, 9 pp. RUSSIAN, por, Zhur Yysah Nervnoy Deyatel, Vol XIV, No 3, 1964, pp \$20-525.

JPRS 26060

Punctional Morphology of Interneuron Synapses, by N. N. Bogolepov, 16 pp. RUSSIAN, per, Zhur Vyssh Ne rynoy Devatol, Vol XIV, No 3, 1964, pp. 544-552.
JPRS 26060

Automatic Analysis of the Duration of the Ascending and Descending Phases of Ricetroencephalogram Oscillations, by A. A. Genkin, V. K. Zakharov, V. I. Tarabukin, 12 pp. RUSSIAN, por, Zhur Yyssh Nervney Doyatel, Vol XIV, No 3, 1964, pp 553-561.

JPRS 26060

Science and Sport, by A. Svetov, 13 pp. RUSSIAN, per, Znaniye - Sila, No 3, 1964, pp 1-5, JPRS 25972

Anatomicohistological Poculiarities of the Moulting of the Tick Hyslomma Asiaticum, by Yu. S. Ilalashov, RUSSIAN, por, Zool Zhur Vol XIII, No 3, 1963, pp 345-358, NIII 7-22-64

Ricciron Microscopic Studies of Microscopic Studies of Microsametes of Himeria intestinalis Sporozoa, Coccidia, by Yo. M. Kheysin, 8 pp. RUSSIAN, per, Zool Zhur, Vol XIIII, No 5, 1764, pp 647-651.

JPES 26177

The Mechanism of Photoperiodic Control of the Rudegeneum Rhythm of the Sexual Cycles of Birds, by V. R. Dol<sup>3</sup>nik, 21 pp. RUSSIAN, per, Zool Zhur, Vol XIIII, No 5, 1964, pp 720-734.

JPRS 26177

Mammalian Fauna of the USSR, by V. G. Geptner, O. M. Gromov, et al, 14 pp. RUSSIAN, per, Zeol Zhur, Vol XIIII, No 5, 1964, pp 788-793. JPRS 26156

Acclimatization of Azov and Black Sea Pauna in the Caspian, by G. A. Alizadzhiyev, 10 pp. RUSSIAN, per, Zool Zhur, Vol XLIII, No 6, 1964, pp. 801-807. JPRS 25815

Bacterial Generation 11me and Consumption by Zeoplankton in Kuybyshev Renervoir, by M. A. Salmanov, 9 pp. RUSSIAN, per, Zoni Zhur, Vol XLIII, No 6, 1964, pp. 809-814. JPRS 25815

A Review of Research and Development of Accounties of the Sea, by You Fang-hu, 25 pp. CHINRSE, per. Hai-yang Yu Hu-Chao, Vol XI, No 1, Pob 1964, pp 109-119. JPRS 26103

Thirty Years of Botany in China a Review, by Lin Jung, 23 pp.
CHINESE, per, Sheng-wu-haueh Tiung-pu., No 2, Mar 1964, pp 1-8.

JPRS 25819

Findings of Cryptococci in Bird Excrements, by P. Fragner. CZECH, per, Ceskoslovenska Epidemiologic Mikrobiologic, Immologic, Vot XI, No 2, 1962, pp 135-139.
NH 7-28-64

Bye Losions Caused by Hydrogen Sulfide, by P. V. Michal CZECH, per, <u>Contoniovenska Oftalmologic</u>, Vol VI, 1950, pp 5-8. NBI 7-13-64

The Importance of Checking for Abnormal Hemoglobius and a Glucose-6-Phosphate Dohydrogenase Deficiency in Army Recruits Born in the Tropics, by J. Karbatt. IXITCH, por, Nederlands Militair Goneoskundig Tijdschrift, Vol XVI, 1963, pp 200-215.

Study of a Heterogeneous Poisoning Method and Its Practical Application, by R. Galzergues, 41 pp. PRENCH, rpt. Symposium on Crticality Control, Karlsruhe, 1961, pp 315-341. 9224340 ARC-HW-Tr-65

Studies of the Pollution of Snake Venoms by Anaerobes and Their Sterilization, by A. R. Prevot. PRENCH, por Annalos de l'Institut Pasteur, Vol LXXXI, 1951, pp 665-667.
NH 7-2-64

Zoophilic Anopheles Species, by R. Roubaud. FRBNCH, per, Bulletin de la Societe de Pathologie Exotique, Vol XV, 1922, pp 36-39. Nill 7-12-64

Research on Simultaneousness in the Execution of Voluntary Movements, by A. Possard. PRENCH, per, Comptes Rendus des Scances de la Societe de Biologie, Voi GXLII, 1948, pp 933-935. Nii 7-6-64

Research on Simultaneousness in the Execution of Reactive Movements, by J. Palilard, et al. PRENCH, per, Compres Rendus de Seances de la Sociate de Biologie, Vol CXIJI, 1948, pp 935-937. NIH 7-8-64

Investigation of Afferent Fibers in the Ventral Lumbosacral Roots in the Cat, by R. Jankowska, FRENCH, per, Comptes Rendus des Seances de la Societa de Biologie, Vol CLV, 1960, pp 1582-1585, NHT 7-27-64

Madifications of the Riccirical Activity of the Olfactory Bulb as a Function of the Variation of Vigilance in the Car, by J. Cadilhac. PRBNCH, per, Comptes Rendus des Scances de la Societe de Biologie, Voi CLVI, 1962, pp 1316-1319. NIH 7-19-64

Diastolic Tonus and Contractility of the Heart, by K. Wezler.
GERMAN, per, Armitche Perschung, Vol XVIII, NO 2, 1964, pp 57-77.
NII 7-20-64

Organization of Medical Countermeasures Against Radiation Accidents Due to Equipment Damage or Breakdown, by K. Neumeister, 12 pp. GERMAN, per, <u>Das Deutsche Gesundheitswesen</u>, No 28, 9 Jul 1964, pp 1203-1207.

JPRS 26021

Scientific
Biological & Medical Sciences (Contd)

Research on the Accumulation and Toxicity of Radium and Radiostrontum in the Human Body. II. The Geneva Whole Body Counter, by Pierre Wenger, Charles E. Miller, 18 pp.
GERMAN, por, Helyotica Chimica Acta, Vol XLVI, No 49, 1963, pp 467-479. 9224358
AEC-Al-Tr-44

Part I. The Pish Material, its Changes Before Cold Storage and Methods Used for Processing and Evaluation of Quality, by W. Partmann, J. Gutschmidt. GERMAN, por, Kaltotechnik, Vol XV, No 5, 1963, pp 130-136.
Pishories Research Board of Canada, Fech Stations

Part II. The influence of Prestorage Time Before Preezing on the Changes of Fish Meat During Freezer Storate at Different Temperatures, by W. Partmann, J. Gutschmidt.

J. Gutschmidt.

GERMAN, per, Kaltetechnik, Vol XV, No 6, 1963, pp 170-177.

Pisheries Research libert of Canada, Tech Stations

A Modorn View of the Problem of Glaucoma, by P. Weinstein.
GERMAN, per, Klinische Monatsblatter fur.
Augenbulkunde, Vol CXLII, No 4, 1963, pp 542-650, Nili 7-10-64

Experiment on Internal Hody Desimetry by Means of a Thermoluminoscence Method After the Incorporation of Sr<sup>50</sup> in the Rat, by H. Kriegel, N. Haring, et al. GHRMAN, per, <u>Strahlentherapic</u>, Vol CXXII, 1963, pp 41-47, \*ARC

Poisoning Caused by Pest Control Agonts, by W. D. Brdmann, 12 pp. GERMAN, per, Die Therapiewoche, No 9, 1963, pp. 386-392. Navy Tr. 3868/ONI 1003

A New Method of Determination and Investigation of Pats in Food, by Brwin Winter, GRRMAN, per, Zoit fuor Lobensmittel-Untersuchung und-Forschung, Vol CXXIII, No 3, 1963, pp 205-210. Fisheries Research Board of Canada, Tech Stations

On the Development and Anatomy of Diphylloboth ium Dendriticum Nitzeh 1824, by Priedrich Kuhlow, GRRMAN, per, Zelt fuor Parantenkunde, No 16, 1933, pp 1-35. \*Fisherien Research Hoard of Canada, Ottawa

On Unsaturated Patty Acids of the Lipids of Freshwater and Marine Algae, by Ernst Klenk, Werner Knipprath. GRRMAN, per, Zelt fuor Physiologische Chemie. No. 334, 1963, pp. 44-59. Fisheries Research Board of Canada, Technological Stations

Structure and Differential Diagnosis of Native Diphyliobhrium-Plorocercoide, by Friedrich Kuhlow, GERMAN, per, Zeit fuer Tropenmedizin und Parasitologie, Vol IV, No 2, 1953, pp 186-202. Fisherica Research Board of Canada, Ottawa

A Contribution to the Development and Systematics of Native Diphyllobothrium Species, by Priedrich Kuhlow. GRMAN, por, Zoit fuer Tropenmedizin und Parasitologio, Vol IV, No 2, 1953, pp 203-234. Fisherios Research Board of Canada, Ottawa

Radiobiological Aerosol Problems, I. Radiodine, by W. Richat.
GERMAN, per, Zentrablatt fuer Biologische Aerosol Porschung, No 11, 1963, pp 232-273.

On the Immunizing Properties of the Non-Virulent Capsulated Variants of B. Antracis Obtained by a New Method of Bacterial Cultivation, by B. S. Levin, J. Stein, 14 pp.
HEBREW, por, Refush Veterinaria.
AEC-NP-Tr-1143

Biochemical Research in Hungary as Reflected by Two Congresses, by Bela Tanko, 10 pp. HUNGARIAN, per, Magyar Tudomany, Vol LXXI, New Vol 1X, No 4, 1964, pp 257-261. JPRS 26199

Inactivation of the Aphthous Virus by Means of Gamma Radiation, by It. Baldelli, A. Begliomini, et al, 11 pp. ITALIAN, rpt, Twelfin Meeting on Microbiology, Perugia, 4-7 Oct 1963, ARRE-liarwell-Tr-1000

Some Pressure Values for the Lesser Circulation in the Dog and Sheep (lamb) as Compared With the Arterial Pressure Values for the Greater Circulation, by W. Plori. ITALIAN, per, Bollettine della Societa Italiana di

ITALIAN, per, Bollettino della Societa Italiana di Biologia Sasrimentalo, Voi XXXVI, 1960, pp 1337-1361, NBI 7-5-64

Modifications of the Functional State of the Thalamus and of the Cortex During the Deopent Stage of Physiological Sleep, by H., Pavale, et al. ITALIAN, per, Bolletino Societa Italiana di Biologia Sporimentale, Vol XXXIX, 1983, pp 435-437.

Sperm Oil, by Hinasht Pujtt.

JAPENTSE, per, Bulletin of the Japanese Society
of Scientific Pisheries, Vol XXIX, No 9, 1963,
pp 889-898.

Fisheries Research
Board of Canada,
Tech Stations

Cochleopupiliary Response During Sleep and Its Clinical Application for Objective Audiometry, by H. Sasaki, JAPANESE, per, <u>Journal Ctorbinolaryng Society</u> Japan, Vol LXV, 1962, pp 998-1011. NH 7-23-64 Scientific Biological & Medical Sciences (Contd)

Studies on Sleep. II. Paradoxical Phase (P.P.) and Reverse Paradoxical Phase (R.P.P.) in Human Subjects, by K. Asshina.

JAPANESE, per, <u>Journal Physiol Society Japan</u>, vol XXIV, 1962, pp 443-450.

NIH 7-25-64

Chemical Composition and Biological Considerations of the Red Mullet, (Mulus Harbatus L.) of Castellon, by J., Herrera, F. Munoz.

SPANISI, por, Invostigation Pesquera, Vol XXIII, 1963, pp 91-113.

\*Fisherica Research
Board of Canada,
Ottawa

Variation in the Chemical Composition of the 1 and of Barbare South Atlantic Coast of Spain) in Relation to Differt Migratery Phonon, by Bafael Establish. SPANSH, per, Investigation Penguera, Vot XXII, 1963, pp 157-169.

\*Pisheries Research Board of Canada, Ottawa

Chemistry

The Mossbauer Effect and its Applications in Chomistry, by V. I. Goldanskiy. RUSSIAN, bk, Consultants Bureau

Ozono in the Service of Large-Scale Chemintry, by Yu. M. Emel'yanov, 7 pp. RUSSIAN, rpt, Apr. 1964. Navy Tr. 3872/BuShipa 858

Zinc, Copper, Cobait and Molybdenum in Some Soils in the Ruropean Part of the USSR, by Yu. 1. Debritskaya, Ye. G. Zhuravleva, et al, 31 Jp. RUSSIAN, bk, Mikroelementy v Nekotorykh Pochyakh SSSR, Moncow, 1964, pp 85-113. JPRS 26040

Technical Exploitation of Ricetrochemical Phonomena Unifor Seawater Conditions, by A. A. Parkhadov, S. A. Alibeyli, 9 pp. RUSSIAN, bk, Trudy Yaspayuznaya Masiyuzovakaya Nauchaya Konforentalya po Voprosam Borby a Korroziyoy, Baku, 1962, pp 220-225.

JPRS 26067

The Use of the Ricctron Paramagnetic Resonance Method in Biochemistry, by A. C. Kalmanson, 105 pp. RUSSIAN, bk. Uspekhi Biologicheskoy Khimii, Moscow, Vol V. 1965, pp 289-304, JPRS 26059

Adhesive PRD-B for Comenting Plantics of Pormula 57-40 to the Surfaces of Construction Units, by G. V. Struminskiy, T. A. Ignstova, et al, 14 pp.
RUSSAN, by, Zashchitnyye Pokrytiys v Atomboy Toknatke, Moscow 1963, pp 80-92.
JPRS 26001

Scientific Chemistry (Contd)

The Radiation Resistance of Polyvinylchloride and Polymeric Materials Based on it, 1.5 M, N, Shteding, 10 pp.
RUSSIAN, bk. Zashchlinyve Pokrytiya v Atomnoy Tekinike, Moscow, 1963, pp 35-44.
JPRS 26001

The Chemism of Photosynthetic Phosphor ylation, by N. M. Sisakyan, R. M. Bekina, 23 pp. RUSSIAN, per, Iz Ak Nauk SSR, Seriya Biolog. No 3, 1964, pp 396-409.

JPRS 26179

Principles of Modeling Biocatalysts, by 1., A. Nikolayev, 21 pp. RUSSIAN, per, Uspekhi Khim, Vol XXXIII, No 5, 1964, pp 580-601. JPRS 26083

First All-Union Biochemical Congress, by I. I. Ivanov, Yo. M. Krep, et al, 8 pp. RUSSIAN, per, <u>Vest Ak Nauk SSSR</u>, No 5, 1964, pp 144-148. JPRS 26064

Isotopic Exchange Between Carbon Dioxide and Its Bihanolamine Solutions, by I. A. Semyokhin, G. M. Panchenkov, et al., 5 pp. RUSSIAN, por, <u>Yest Moskov Univ</u>, <u>Ser II. Khim</u>, Vol XIX, No 1, 1964, pp. 35-38.
AEC-ORNL-Tr-68

Interaction in the System BaO-BeO, by E.N. Isupova, E. K. Keler.
RUSSIAN, per, Zhur Neorgan Khim, Vol IX, No 2, 1964, pp 394-402.
\*ABC

Hot-Prensing of Pure-Oxido Geramica, by D. N. Poluboyarinov, R. I. Shalbov. RUSSIAN, per, Zhur Vaes Khim Obshch imeni D. I. Menaleloyeva, Vol VIII, 1903, pp 148-154. \*ARC

Chemical Reaction of Liquid Surfaces, by Ku T't-Jen, 23 pp. CHINESE, por, Hua-bauch T'ung-pao, No 6, 1964, pp 41-48, JPRS 26289

The Mixing Effect of Dispersion Between Liquids on the Continuous Mixing Reactor, by Ch'en Min-heng, Ch'en Liang-heng, et al, 6 pp. CHINESE, per, K<sup>4</sup>0-hsuch 1 ung-pao, No 6, 1964, pp 354-526.

JPRS 26128

Crystal Structure of CU(NH3)2(SCN)9, by Hoang Chin-lin, Chien Yuan-chuu, 5 pp. CHINESE, per, Kio-hauch Hung-pao, No 6, 1964, pp 526-529.

JPRS 26193

Reduction of Uranium From Low-Grade Uranium Ore gy the Volumetric Analysis System With Aluminum Foli, by Li Kuan-hua, 5 pp. CHINESE, per, Kto-hauch Ttung-pao, No 6, 1964, pp 533-534.

JPRS 26310

Radiochemical Analysts by Means of Adsorption Plates. I. Methodology and Determination of Radiom, by B. Vleek. CZECH, per, Collection of the Czechoslovak Chemical Communications, Vol XXVIII, 1963, pp. 1326–1436. Scientific Chemistry (Conta)

On the Magnestum-Antline, by A. P. ferentlyev, 6 pp. PRENCH, per, Bulleun de la Societe Chimique de Pranco, Vol XXXV, 1924, pp. 164-1es. 9224 363 ABC-5C-1-64-906

The Analysis of Complex Decay Curves, by K. E. Seyb, 14 pp.
PRENCH, per, <u>Radiochimica Acta</u>, Vol I, 1963, pp 167-170.
ARC-NP-Tr-1252

Catalysis in the Polymerization of Unsaturated Hydrocarbons by Organoalkali Compounds, by K. Ziegler, L. Jakob, 34 pp. GERMAN, per, <u>Annalen der Chemie</u>, Vol XII, No 511, 1934, pp. 45-64. Patent Office

On the Radon Adsorption With Activated Charcoal in the Open System of the Free Gas Flow, by O. Gibeli, M. Stori, 7 pp. GERMAN, per, <u>Helvetica Chimica Acta</u>, Vol XXXVIII, 1955, pp 180-185. 9224356 ABC-SC-T-64-617

Freezing Point Deprenator Due to Anomalous Crystal Habit as Well as by Limitation of the Crystal Size, by Werner Kulm, 24 pp.

GERMAN, per, <u>Helyetica Chimica Acta</u>, Vol XXXIX.
1950, pp 1071-1080.

ARC-ORNL-Tr-72

Synthesia Tests in the Emerino Series, by A. Brossi, M. Baumann, 28 pp. GRRMAN, per, Helvetica Chimica Acia, Vol XIII, 1959, pp 772-788. Patent Office

Synthesia Testa in the Emetine Series, by A. Brossi, O. Schnider, 19 pp. GRRMAN, per, Holvetica Chimica Acca, Vot XI V, 1902, pp 1899-1907. Patent Office

Non-Dispersive X-Ray Spectrometry, Applications to Elementary Chemical Analysis, by G. Selbel, 41 pp. GFRMAN, per, International Journal of Applied Radiation and Incoopes, Vol. XV, 1964, pp. 23-41, ARC-HW-Tr-70

Electrolytical Polishing Application in Metallography, by A. L. deSy, 11, Hammers, 21 pp.
GERMAN, per, <u>Metalen</u>, Vol IV, 1950, pp. 129-137,
AEC-SC- 1-64-903

Chromatographic Procedures in Organic Chemistry, by Gerhard Hesse, 12 pp.
GERMAN, per, Z fuer Analytische Chemie, Vol CLXXXI, 1961, pp. 274-283. 9224355.
AEC-SC-T-64-618

Activation of Borte Acid With Polyoxy-Compounds and the Phenomena in Quantitative Analysis of Activated Borte Acid, by Harald Schaefer, 26 pp.
GERMAN, per, Z fuer Anorganische und Allgemeine Chemig, Vol CCXLVII, 1941, pp 96-112, AEG-UCRL-Fr-1034(L)

Synthesis of Glucose 3,4-14C of High Specific Activity, by P. Von Fiedler, A. Trebst. GRRMAN, per, Z fuer Naturforschung, Vol XIXb, No.5, 1964, pp. 395-397.

\*ARRE-Harwell

Scientific Chemistry (Contd)

The Mode of Action of Actinomycina III. The Linkage of Actinomycin C With Nucloic Acids and Nucleotides, by W. Kersten, H. Kersten, GERMAN, per, Z. fuez Physiologische Chemie, vol CCCXXX, 1962, pp. 21-30.

The Practical Utilization of Scientific Results in Chemistry, by Ibolya Kardos, 6 pp. IlUNGARIAN, per, Magyar Tudomany, Vol LXXI, New Vol IX, No 5, 1904, pp 326-328.

JPRS 26153

Preparation of Glucose-6-Phosphate Uniformly Labelled With <sup>14</sup>C, by P. Betto, L. Longinotti, 8 pp. ITALIAN, per, Gazzetta Chimica Italiana, Vol XCIII, 1963, pp 1191-1195. AEC-NP-TI-1250

### Earth Sciences & Astronomy

Aurorae and Airgiow, by V. I. Krasovskiy. RUSSIAN, bk NASA (OTS)

Tolegraphic Determination of the Difference of Longitudes Between the Cities of Yonisoisk and Krasnoyarak, by K. Ivanov, A. Vilikitakiy, RUSSIAN, rpt, No 18, 1897, pp 92-148. ACIC
TC-231

Results of Geophysical Works in Research of Plutonic Geology Connected With the Problem of Oil Contents in Certain Regions of Ukrainian SSR, by V. S. Zavistovakly, RUSSIAN, bk, Kiev, 1939. ACIC TC-385

Astronomic Observations in Semirechiye, by A. I. Potronko, RUSSIAN, rpt, Astronomicheskiye Nablyudentya y Somirechiyo, 1935, ACIC TG-216, 224

On a Hydrodynamic Theory of Climate and Long-Range Weather Forecasting, by Ye, N. Blinova, 19 pp. RUSSIAN, rpt, Gidrodinamicheskiy Dolgosrochny, Prognoz Pogody, Moscow, 964, pp 5-18. JPRS 26176

Porecasting Zonal Circulation on the isaste of Goupling Moments, by M. B. Galin, 11 pp. RUSSIAN, rp. Gidrodinamicheskiy Dolgosrochnyy Prognoz Pogody, Moscow, 1964, pp. 42-50, JPRS 26176

O a the Distribution of Prensure-Field Coupling Moments in a Standard Layer of the Atmosphere, by I. P. Smitnov, 13 pp.pp.
RUSSIAN, rpt, <u>Gidrodinamicheskiy Dolgostochnyy Prognoz Pogody</u>, Moscow, 1964, pp 51-61.
JPRS 26176

Scientific
Earth Sciences & Astronomy (Contd)

On Forecasting Zonal Circulation for a Long Period, by I. P. Smirnov, 10 pp. RUSSIAN, rpt, Gidrodinamicheskiy Dolgosrochnyy Prognoz Pogody, Moscow, 1964, pp 99-106. JPRS 20175

Section V. Higher Geodesy, by U. G. Zdanovich. RUSSIAN, Handbook on Mine-Surveying Work, 1955, pp 127-145. ACIC TG-351

Map-Scheme of the Reverse Side of the Moon, by I. I. Breydo.
RUSSIAN, rps, Karta-Skhama Obratnoy Storony Luny, Chapt 16, 1960.
ACIC
TC-203

The Speciful Distribution of Outgoing Radiation, by K. Ya. Kondraflyev, K. Ye. Yakushevakaya. RUSSIAN, bk, Poblemy Fiziki Atmosfory, Leningrad, No 2, 1963, pp 48-66.
NASA TT F 210

The Spectroscopic Method of Integral Determination of the Water Vapor Content in a Column of Atmosphere, by I. Ya. Badinov, A. P. Gal<sup>†</sup>isov, et al. RUSSIAN, bk, <u>Problemy Fiziki Atmosfory</u>, Loningrad, No 2, 1963, pp 113-126.
NASA TT F-212

Problems of Solar Activity, by B. M. Rubashov. RUSSIAN, bk. <u>Problemy Solaechnoy Aktivnosti,</u> Moscow, Leningrad, 1964, 362 pp.

\*NASA TT P-244

Radioactive Contambation of the Sean and Oceans, by V. I. Baranov, L. M. Khitrov, 111 pp. RUSSIAN, mono, Radioaktivnaya Zagryaznemont Morey 1 Okeanov, Moscow, 1964, pp 3-11, 92-169.

JPRS 26002

Radiation of the Moon, Physical Condition and Nature of Its Surface, by V. S. Troitakiy.
RUSSIAN, rps. Radioiztucheniye Luny, Pizicheakoye Sotoyaniye i Priroda Bye Povarkinosti, pp 16-30.
ACIC

Currents of the Bering Sea, by A. K. Leonov. RUSSIAN, bk, Regional nava Okeanografiya, Part I, 1960, pp 101-123. Navy 1: 3888/HO 187

New Data on the Stratigraphy of Lower and Middle Cambrian Deposits of the Olenek Blevation. Basin of Down-Stroam Olenek, by V. Ga. Kaban'kov. RUSSIAN, Rpt. Sprnik Nauchno-losiedotatelsky Institut Geologii Arktiki. Ministersius Geologii Okhrany Poleznykh Jakopayemykh. Vol LXV, No li, 1959, pp 4-18.

History of Geological Development of the North-West Part of the Siberian Platform, by Ya. I. Pol<sup>\*</sup>kin, RUSSIAN, 13t, Spornik Nauchno-Lanjedovatel<sup>\*</sup>akiy Inst Geologii Arkittiki, Minister stop Geologii i Okhrany Poloznyki Iskopayemykii, Vol I.XV, No 13, 1959, pp 57-72.

ACIC I C-458h

Scientific
Earth Sciences & Astronomy (Contd)

TC-264-267

Seismological Researches. RUSSIAN, bk, <u>Soysmicheskiye Isaledovaniya</u>, No 4, 1960. ACIC TC-343

Report on Scientific Works in Geodesy, RUSSIAN, rpt, Soobshcheniye o Nauchnykh Rabotakh po Geodozii, Moscow, 1957. ACIC

Transactions of the Central Aerological Observatory: Atmospheric Turbulence. RUSSIAN, bk, Trudy Tsentral'noy Aerologicheskoy Observatorii: Atmosfernaya Turbulentnost', No 54, 1964, 100 pp.

\*NASA TT F-246

Light Range Finder SVV-1 and the Results of the Tosting, by V. A. Velichko, RUSSIAN, per, Byull Minister Vysshego Obrazovan SSSR, No 2, 1957, pp 37-55.
ACIC TC-298a

Geodotic Light Range Finders of the State Optical Institute Equipped With Interference and Diffraction Light Modulators, by Yu. V. Popov. RUSSIAN, per, Rud Minister Vyashogo Obrazovan SSSR, No 2, 1937, pp 55-71.
ACIC
TC-298b

Some Results of Radar Measurements of Turbulence In a Prec Pure Atmosphere, by A. A. Zagorodníkov, Yc. K. Federov, 5 pp.
RUSSIAN, por, Dok Ak Nauk SSSR, Vol CLVI, No 6, 21 Jun 1964, pp 1336-1338.
JPRS 26086

On the Geocentric Latitude of a Space Point, by A. A. Izotov, 5 pp. RUSSIAN, per, Geodi Kartograf, No 6, 1964, pp 3-5.
JPRS 25771

Double Resection in Space, by V. V. Pogorelov, 11 pp. RUSSIAN, per, Geodoz i Kartograf, No 6, 1964, pp 40-46. JPRS 25501

The Geological Significance of the Gravitational Map of Karolia, Pinland and Leningrad Region, by B. A. Andreyev. RUSSIAN, per, Geofiz, Vol VII, 1938, pp 1-26, ACIC TC-464

Results of Exploration of Terrestrial Crust in Southern Part of Westorn Siberian Low-Land by the Mothod of Scismic Soundings, by Z. Kh. Telakova. RUSSIAN, per, Geologiya i Geofizika, No 7, 1961. ACIC TG-458

Bibliography on Geology of Siberia Submitted to GPNTB, Siberian Section Academy of Science, RUSSIAN, per, Geologiya i Geofizika, No 7, 1961, pp 106-114. ACIC TC-458c Scientific
Earth Sciences & Astronomy (Contd)

Geologic-Geophysical Estimate of Prospects for Deep Horizon Iron Ore Fields Based on the Example of Tashtagol'sk Deposits, by V. I. Andreyev, V. I. Kurpin. RUSSIAN, per, Geologiys i Geofizika, No 8, 1961, pp 82-84. A CIC TC-441s

Evaluation of the Methods for Determination of Air Pollution by the Daughter Products of Racon, by I. I. Gusarov, V. K. Lyapidevsky, 17 pp. RUSSIAN, per, Gig 1 San, No 1, 1964, pp 56-65. Navy Tr 3884/NRL 982

Fundamentals of Mining Science, by G. I. Mankovskiy, 5 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Met i Gornoo Delo,
No 3, 1964, pp. 170-182
JPRS 20279

Bulletin of the Main Astronomical Observatory, RUSSIAN, per, Iz Glav Astron Obser, Vol V, No 1, 1963.

\*NASA TT F-245

The Vortex Structure of the Cloud Cover According to Weather Satellite Data, by 17. S. Minina, 13 pp. RUSSIAN, por, Met i Gld, No 1, 1964, pp 12-22. 9223419
NASA TT P-206

Statistical Evaluation of the Errors Associated With Linuarization of the Vorticity Equation, by I. I., Vulla, II pp. RUSSIAN, per, Meteorol I Gidrol, No 4, 1964. JPRS 25097

Computation of Changes in Pressure at the Barth's Surface From Using Aerological Data, by Ye. N. Arabey, 8 pp.
RUSSIAN, per, Meteorol 1 Gidrol, No 5, 1964.
JPRS 25697

The Complex Method and the Problem of Long-Range Weather Forecasting, by Yu. B. Khrabrov, 8 pp. RUSSIAN, per, <u>Meteorol I Gidnol</u>, No 5, 1964. JPRS 25697

JPRS 25697
Work of the Institute on Investigation of General

Circulation of the Atmosphere in the German Democratic Republic, by B. Barg, 5 pp. RUSSIAN, per, Moteorel i Gidrol, No. 5, 1964, JPRS 25097
Literature on Meteorology and Hydrology.

Literature on Meteorology and Hydrology Fublished in 1963 Books and Brochures Meteorology, 13 pp. RUSSIAN, per, Meteorolo 1 Gidrol, No 5, 1964, JPRS 25697

Soviet Meteorological Conferences, Meetings and Sominars, 7 pp. RUSSIAN, per; Meteorolog I Gidrol, No 5, 1964, JPRS 25097

A New Approach to the Numerical Solution of the Weather Forecasting Problem, by G. I. Marchuk, 10 pp. RUSSIAN, per, Meteorol 1 Gidrol, No 5, 1964, JPRS 25697

Certain Characteristics of Tropospheric Circulation in the Equatorial Region, by Ye. M. Dobryshman, 15 pp. RUSSIAN, per, Meteorol I Gidrol, No 5, 1964. JPRS 25697 Scientific Earth Sciences & Astronomy (Contd)

Increasing the Quality of Analysis of the Geopotential Floid for Areas for Which There is Little Available Initial Data, by M. S. Puks-Rabinovich, 14 pp. RUSSIAN, per, Meteorol i Gidrol, No 5, 1964. JPRS 25697 Stability of Solution of Vorticity Transport Equations Relative to Initial and Boundary Condition Perturbations, by L. A. Dikiy, T. D. Koronatova, 9 pp. RUSSIAN, per, Meteorol 1 Gidrol , No 5, 1964, JPRS 25697 Literature on Meteorology and Hydrology for 1963 Articles in Journals and Collections Moteorology, 13 pp. RUSSIAN, per, Meteorol i Gidrol, No 6, 1964. JPRS 25718 The Two-Year Cycle in the Equatorial Stratosphere and General Circulation of the Atmosphere, by A. L. Kata, 11 pp. RUSSIAN, per, Meteorol i Gidrol, No 6, 1964. JPRS 25718 Actinometric Measurements on the Vessels of Soviet Antarctic Expeditions, by V. I. Shlyakhov, 7 pp. RUSSIAN, per, Meteorol i Gidrol, No 6, 1964. JPRS 25718 The Use of Electronic Computers for the Statistical Analysis of Agrometeorological Data, by O. D. Sirotenko, 9 pp., RUSSIAN, por, Moteorol i Gidrol, No 6, 1964. JPRS 25718 Accuracy of Wind Determination Using the Meteor Radiometeorological Station, by B. S. Derbenev, B. P. Istomin, 5 pp. RUSSIAN, per, Meteorol i Gidrol, No 6, 1964. JPRS 25718 Calibration of Radiosondes for Temperatures Down to -100o, by A. Ye. Shchekin, 5 pp. RUSSIAN, per, Meteorel I Gidrol, No 6, 1964. JPRS 25718 Hydrograph Precalculation by the Water Balance Method Using an Electronic Analog Computer, by G. P. Kalinin, A. G. Levin, 11 pp. RUSSIAN, per, <u>Meteorol | Gidrol</u>, No 7, 1964. pp 3-10, JPR S 26139 Short Period Forecasing of High-Water Hydrographs, by L. M. Margolin, 63 pp. RUSSIAN, por, <u>Motoorol i Gidrol</u>, Moscow, No 7, 1964, pp 21-25. JPRS 26139 Modern Mathematical Methods in Hydrology, by L. S. Kuchment, 63 pp. RUSSIAN, per, Moteorol i Gidrol, Moncow, No 7, 1964, pp 37-40.

JPR3 26139 Literature on Meteorology and Hydrology for 1903, 63 pp.
RUSSIAN, per, Meteorel I Gidrol, Moscow, No 7, 1964, pp 53 56.
JPRS 25139 Activities of the Main Administration of the Hydrometeorological Service, 63 pp. RUSSIAN, per, Meteorol i Gidrol, Moscow, No 7, 1964, pp. 59-60, JPRS 26139 On the Possibility of Using Deep Explosions for Seismic Investigations in Deep-Sea Regions by the Reflected Waves Method, by Yu. P. Neprochrov, 7 pp. RUSSIAN, per, Okoanologiya, Vol IV, No 3, 1964, pp 512-516, JPRS 25835

Earth Sciences & Astronomy (Contd)

Fourteenth Voyage of the Research Vessel "Mikhail Lonomosov" In the Atlantic Ocean, by S. S. Voyr, 10 pp.
RUSSIAN, per, Okcanologiya, Vol IV, No 3,
1964, pp 536-540.
JPRS 25836 Magnetometry for Studying Rare Motal Carbonatite Masses, by R. B. Rusanov, 6 pp. RUSSIAN, por, Razvedka i Okhrana Nodr, Jul 1964, pp 30-33. JPRS 25991 The Method of Research of the Geological Structure of the Crystalline Mantel of the Earth, by R. M. Demonitakaya. RUSSIAN, per, Sovet Geologiya, No 1, 1959. ACIC TC-345 Geological Sketch of the Central Zone of the Northern laland of Novaya Zemiya, Along the Rusanov Valley, by M. A. Lavrova, B. F. Zemiyakov. RUSSIAN, por, Trudy Ceoftz Inst Ak Nauk SSSR, Vol 1, 1931, pp 15-60, ACIC
TC-361 Doep Selamic Crustal Probing, by G. A. Gamburtsev. RUSSIAN, per, Trudy Gootiz Inst Ak Nauk SSSR, No 25 (152), 1954, pp 124-133. ACIC Relationship of Ice Phase Dates on Some Lakes and Rivers in the Western USSR, by I. V. Molchanov, 23 pp.
RUSSIAN, per, Trudy Gosudar Gidrolog Inst.
No 85, 1962, pp. 52-68.
JPRS 25875 Computations and Predictions of Slush and Ice Plow During the Preezing Period of Rivers, by R. A. Nezhtkhovskiy, 58 pp. RUSSIAN, per, Trud Gonadar Gidrol Inst., No 103, 1963, pp. 3-40. JPRS 25985 On the Mechanism of Ice-Cover Shifts, by V. P. Berdonnikov, 22 pp. RUSSIAN, per, Trud Goundar Gidrol Inst. No 103, 1963, pp 41-56. JPRS 25985 On Some Types of Mountain River fee Regimes, By A. N. Chizhov, 18 pp. RUSSIAN, per, Trud Gondar Gidrot Inc., No 103, 1963, pp 57-69, JPRS 25985 Transparency and Color of Water in the Apsheronsk Acra of the Gaspian Sea, by R. G. Arkhipova, G. V. Rzheplinskiy, preserve. RUSSIAN, per, Trudy Gosudarstvennogo Otesnograf Inst. Vol LXI, 1961, pp 153-158, Navy 11 3890/HO 211 The Calculation of Mean Gradients in the Discontinuity Layer, by V. P. Trenin. RUSSIAN, per, Trudy Gosudarstyennoso Okosnosi al-mat, vol LXIII, 1961, pp. 98-103. Navy Tr. 3889/HO 207

The Cotor of Marine Populations at Various

Depths, by N. N. Kondakov.

Rarenta Sea, by M. V. Propp.
RUSSIAN, per, Trudy Okeanograf Komiaeli
Ak Nauk SSSR, Vol XIV, 1962, pp 73-75.
Navy Tr 3893/HO 215

Determination of the Coefficients of Turbulent Diffusion in the Sea With the Aid of Radioactive Indicators, by B. A. Nelepo.
RUSSIAN, per, <u>Yest Moskoy Univ Ser III Fiz 1</u>
Astron. No 4, 1960, pp 64-70.
Navy Tr 3E94/HO 217 Weather Control of the Future, by I. Litvinov, 11 pp. RUSSIAN, per, Znaniya-Sila, No 6, 1964, pp 20-24. JPRS 25845
Hrief Description of the National Atlas of Bulgaria, by Anastas Boshkov, 6 pp.
BulgariaN, por, Spisante na Bulgarskata
Akademiya na Nauklto, Vol VIII, No 4, Oct. Dec 1964,
pp 30-34.
JPRS 25694 The Mechanism of Ice-Forming Nuclei and Artificial Super-Cooled Cloud and Fog, by Chao Pat-lin, 11 pp.
CHINESE, per, Kto-hsuch Ttung-pao, No 6, 1964, pp 495-500.
JPRS 26193 Conference on liydrological Porecasta, 6 pp. CHINESE, per, Klo-nauch Tung-pao, No 6, 1964, pp 560-562, JPRS 26128 Relative Gravity Determination of the Points Triangles in the Triangulation in Southern Pinland Conducted During Years of 1924-25, by U. Pesonen, PINNISH, per, Geodetic Institute, No 9, 1927. ACIC TC-359 Some Analytical Characteristics of the Surface and Base of Greenland's Inland Ico, by Jean-Paul Hourgoin, PRENCII, rpt, Vol XII, No 1, 1956. ACIC TC-365 When the Barth Trembles, by Haroun Tazleff, PRENCH, bk. Research on the Polarization of Light Prom Planets and From Some Terrestrial Substances, by II. Lyot. FRENCH, bk. NASA (OTS) NASA (O15)
Belgium and Belgian Congo. National Committee of
Geodosy and Geophysics. Geodotte Works Accomplished
Prom 1939 to 1953.
PRENCH, rpt, Bolgique et Congo Belge, Comite
National do Geodosie et de Geophysique. Travaux
Geodosique Receutes da 1939 a 1953, Sept 1954.
ACIC
TC-433a Gravimetric Exploration of the Par Rast, by R. P. Lejay.

FRENCH, rpt, Exploration Gravimetrique de L'Extreme-Orient, Paris, 1936.

ACIC TC-241 Occusions of the West Ford Needles With Micrometeorites, by A. Sauval, 9 pp. PRBNCH, per, Bulletin de la Societo Royale des Sciences, Liege, Vol XXXII, No 1-2, 1963, pp 54-61, 9693577 Collisions of the West Ford Needles With DIX RSIC-235 Unknown Rocks, by L. Oudet, 22 pp. PRENCH, per, La Revue Maritime, No 199, May 1963, pp 556-570, Navy Tr 3867/ONI 1004

Contribution to Gravimetric Geodesy, by Kurt Arnold, GERMAN, rpt, Beltrage zur Gravimetrischen Geodasie, No II, 1936, AGIC

TC-202

Free-Air Isanomals in Mountainous Terrain, Plotted According to the Hypsographic Method, by Franke, G. Relas. GERMAN, rpt, Konstruktion von Freihaftisanomalen in Nicht Ebenem Gelaende Nach det Hypsographischen Methode. ACIC TC-554 Preliminary Design to the Notebook on Southeastern Europe, Northern Part, Romania.

GERMAN, rpt, Vorentwurf Zum Planheit Stedosteuropa,
Nordlicher Toll Rumanien, 1943, pp. 31, 32, 44-46,
69-77, 82, 98-108, 128-132. A C1C TC-454 The Precision of Measurements With the Askania Four-Pendulum Apparatus of the German Geodetic Research Institute, by Kurt Marzohn, GERMAN, per, Doutsche Geodacus-he Kompussion, Sorios III, Annewandro Geodacus, No. 40, 1908, pp 1-32. ACIC Results of the Pendulum Measurements of the German Geodetic Research Institute Conducted on the Stations of the European Gravimetric Calibration Lines, by Kurt Marzahn, GERMAN, per, Deutsche Geodaettsche Kommission, Series Br. Angewandto Geodaeste No. 44, 1958, A CIC T C-431 The High Complex Wind Sea Sear the Sorth Atlantic Weather Ship "K" on a December 1959, by H. Walden. GRRMAN, por, <u>Deutscho Hydrographische</u> Zeitschrift, Vol XIV, No 6, 1961, pp. 239-247, Navy Tr 3891/HO 212 The Significance of the Artificial Rarth Satellites for Goodeny, by R. Sigl. GBRMAN, per, Zfuet Vormenningn-Technik, No 8, 1961, ACIC TC-380 The Problem of Introducing the System of Gravimetric Deflections of the Vertical in the Compensation of Country Astronomical-Geodetic Network, by Z. Zabek. POLISH, rpt. ACIC TG-424 Reports on Observations. On Determination of the Pigure of Barth According to Gravity Measurements, by M. P. Rudzki. POLISII, rpt, Memoires et Observations, Ser la Determination de la Pigure de la Terre D'Après Les Mesures de la Gravite. ACIC FG-477 Gravimetric Map of Poland, by Ladeunz Olezak, POLISH, per, Bulletin 64, Geophysical Series, No 5, The Moon, by Angelo Roccal ITALIAN, bk. Ducll Tectonics of the Territories of the Ukrainian and Moldavian Soviet Socialimite Republica. UKRAINIAN, pur, Geological Institute, Kiev, 1959.

ACIC TC-256

#### Scientific Electronics

Elements of Discrete Systems of Communication, hy Verdamin Isaakovici Shiyapoberskiy, 241 pp. RUSSIAN, bk. Blementy Diskretnykh Sistem Svyazi, JPRS 23674 Noise Immunity of Television Systems Random Noise in Television, by N. N. Krasilfukov, 295 pp. RUSSIAN, bt. Pomekhoustovenivost Televizionnykh Ustroym v Flyuktuatsjonnyve Shumy v Televicinii, Moscow, 1961, pp 1-267, 9693514-V FTD-TT-62-1661 Noise Immunity of Communications Systems With Brror Correcting Peedback, 215 pp. RUSSIAN, bk, Problemy Peredachi Informatsii, Moscow, No 13, pp 1-172.

JPRS 25853 Radio Communications With Space Rockets, Radio Communications with Space Reckets, by E. Yu. Yur'yov, 83 pp.
RUSSIAN, bk. Radiosvysz's Kosmicheskimi, Moscow, 1963, pp 1-80.
JPRS 23847 Low-Frequency Minimum-Weight LC Delay Lines, by V. S. Martynov, E. D. Bauman, RUSSIAN, per, <u>Elektrosyvaz</u>, No 3, 1964, pp 51-58. System of Information Transmission With Address Interrogation of Code Words Rejected in the Preceding Transmissions, by Yu. M. Martynov, 10 pp. RUSSIAN, per, <u>Elektrosvyaz</u>, No 7, 1964, pp 26-32, JPRS 26269 Methods of Organization of Automatic Radioterephone Service in Ultrashort Wave Systems for Automatic Radiotelephone Stations With Prequency Division of Channela, by G. A. Grinev, 13 pp. RUSSIAN, per, Bloktronvyazi, No 7, 1964, pp 60-68, JPRS 26269 Eleventh Conference on the Physical Bases of Lathode Electronics, 31 pp. RUSSIAN, per, Radiotekinika i Elektronika, No. 6, 1904, pp. 1099-1113, JPRS 25811 Method of Contactless Investigating Electrical Conduction of Cadmium Sulfide Type Semiconductors, by S. Kynev, M. Sheyakman, et al, 13 pp.
BULGARIAN, per, Izvestiya na Indgarska Akademiya na Naukite, Fizicheski Institute, Vol X, No 2, 1962, pp 29-36, 9693491 ETD-TT-64-155/1, 2 A Shut-Off Device, by Knud Niela Petersen, DANISH, rpt, Patent No 78856, Feb 1955. "Navy/NRI. Statistical investigation of the Relationships Statistical investigation of the Relationships fetween Solar Radio Bursts and Other Flare-Complex Phenomena During 1CY, by A. Kruger.
GERMAN, per, Astronomische Nachrichten, Vol CCLXXXVII, No 3, Jul 1963, pp 119-129.
Navy Tr 3873/APL 1441 the New Photoelastic Apparatus at the Mechanical The new Photoculatic Apparatus at the Mechanical Technical Laboratory of the Munich Advanced Technical School, by L. Poppl, R. Hillscher, 5 pp. GERMAN, per, Lett Bauthgeneur, Vol XX, No. 17, 18, 1939, pp 231-232, 9093579

DEC RSIC-232

Process for Encasing Electrical Structural

Elements, by Georg Lutz, 6 pp. GERMAN, Patent, No 6,225.

Patent Office

#### Scientific Engineering

Fundamentals of the Analytical Mechanics, Puncamentals of the Analytical Mechanics, by N. A. Kill-chowskiy. RUSSIAN, hk, Omnovy Analitichoskoy Mekhaniki Obolochek, Kiov, 1963, 354 pp. NASA TT F-265 Theory and Design of Instruments With Packing-Free Platons, by M. K. Zhekhovskiy. (NY-9362) RUSSIAN, bk, Teoriya I Reachet Prilogray 8 Neuplothernnym Porsinem, Moscow, 1989, pp 3-204. 3JPRR The Need for Improved Standards in Industry, by V. Boyarov, 8 pp.
RUSSIAN, np. Izventiya, 9 Jul 1964, p 3,
JPRS 26135 Optimum Combination of Motor Systems on a Space Vehicle, by Yu. N. Ivanov. RUSSIAN, per, Iz Ak Nauk SSSR Oldel Tekh Nauk Mekh 1 Mash, No 2, 1964, pp 9-18. Navy/API. 1432 Stand Test of the Method of Vacuum Dogunsing Liquid Steel, by O. Kh. Patkullin, G. N. Olka. RUSSIAN, per. 12 Yyashibi Uchob Zayed Chorn Motall. No. 5, 1964, pp 53-57. Automatic Assembly Line of Cylinder Bloc Heads of Motors, by G. L. Parsamova, 7 pp. RUSSIAN, per, Mekh J Avtomat Prolavod, NO 5, 1964, pp 12, 13, JPRS 25807 New Metal Cutting Semiautomatic Machine Toola, by M. L. Lemitakiy, 10 pp. RUSSIAN, per, Mekh i Avtomat Proizvod, No 5, 1964, pp. 37-40. JPRS 25807 Proper line to the Load Broomtered by Ship Propeller Blades, by M. A. Ignatyev, 14 pp. RUSSIAN, per, Problemy Arktikt i Antarktiki, No. 15, 1964, pp. 41-51.

JPRS 26034 Calculating the Strength of Screw Propeller Bladen for Ships Used in Ice Navigation, by M. A. Ignatiyev, 11 pp.
RUSSIAN, per, Problemy Arktiki I Antarktiki, No 15, 1964, pp. 75-82.
JPRS 25936 Scientiffe Organization of Labor and Phylocoring Paychology, by It. Lorsov, 8 pp. RUSSIAN, per, Sotsialistichoskiy land, No o, 1964, pp 42-47, JPRS 25935 Chapter XII, Geodetic Control. Manual for Engineering-Chapter All, Geodetic Control. Manual for Engineering-Geodetical Explorations in Projecting and Construction of Hydro-Electric Power Planta, by G. A. Thakhidzhanyau RUSSIAN, per, Irudy Glava XII, Geodezichoukoye Ohosnovaniye, 1960, pp 34-63. Hydraulic Design of Cooling Reservoirs, by A. V. Bezyzvestnykh, 14 pp. RUSSIAN, per, <u>Trud Gonudar Gidrol Inst.</u> No 83, 1962, pp 60-67. JPRS 2606: Report to the Plenary Session of the Conference of Higher Educational Institutions on the Similarity Theory and its Application in Heat Engineering, by 5, G. I eletov, 17 pp. S. O. Ictery, 17 pp.
RUSSIAN, per, Irudy Moskoyskogo Instituta
Inchencrnoyo Zheleznodorochnogo Iransporta,
Vol CKKXIX, 1961, pp. 31-44, 9693575
IDC RSIC-234 Study of Multiple Phase Vadose, by Kuo Shang-pling, Liu Iziu-chiun, et al. 10 pp. CHINESE, per, Kio-hauch Ting-pao, No. 5, 1964, up 420-425. JPRS 25363

Scientific Engineering (Contd)

The Development of Chemical Engineering, The Development of Chemical Engineering, by Yang Yu-ch<sup>3</sup>1, 9 pp.
CHINEST, per, k<sup>to</sup>-hauch T<sup>3</sup>ung-pao, No o, 1964, pp 510-514.
JPRS 26128 Statistical Explanation of the Equilibrium of Complex Ions in Solution, by Yuan Wan-chung, 5 pp. CHINESR, per, Kto-hauch Ttung-pao, No 6, 1964, pp 529-531.

JPRS 26310 Protection of the Founder, by G. Parriaux, FRENCH, per, Centre do Documentation Siderurgique Circulaire Informations Techniques, No 5, 1963, pp 1165-1187. FIRST 3826

Examination of Replies to the Quentionnaire on Casting Ladies, by J. Colin.

FRENCH, per, Centre de Documentation Siderurgique Girculaire Informations Technique, No 5, 1963, pp 1243-1246.

FIRST 3825 The Dankirk Iron and Steel Plant: Blast Farmices, PRENCH, per, Metallurate et la Construction Mechanique, No 5, 1963, pp 443-450. Device for Controlling the Feeding Elements in Rugines of Any Type, by Wilhelm Yoit, Hugo Leniz, 5 pp. PRENCH, Patent, No 412,304, Patent Office Amplifying or Reducing System With Differential Pulley Intended More Particularly for Measuring Apparatus, by Pierre Matre, Joseph Lemaire, 5 pp. PRENCH, Patent, No 619,612. Patent Office Patent Office
Improvements in Automatic Control Systems,
Repectally for Machine Tools, 15 pp.
FRENCIL, Patent, No 1,114,501.
Patent Office Preadaptable Hand Press, by Francois-Marcel Evanso, 9 pp. FRENCH, Patent, No 1,291,655, Patent Office Experiments on the Production of a High-Temperature High-Density Deuterium Plasma by Fast Magnett. Compression, by Eduard Hintz. GERMAN, rpt, 1962. Navy Ir 3882/NRL 975 Austrian Power Plant Constructions in 1960-195; GERMAN, 1 pt, Qesterretchs Energichauten 1960-1961. TC-470b Oxalating of Stainless Steel Tubes, by G. K. Schwarz. GERMAN, por, <u>Bandor Bleche Rohre</u>, No 10, 1963, pp 529-534. Constructional Works of the Power Plants on the Constructional Works of the Power Plants on the Drava River, by R. Koenigshofer, GERMAN, per, Journal on the Hydro and Power Reciping, No. 8, 9, 1961, pp. 242-247. TC-470a Peculiarities of Hot-Working Austentitic Steels Into Seamless Tubes, by G. Richter, B. Krauss. GERMAN, per, Naue Huerre, Vol VIII, No 10, 1963, pp 594-599.

\*BISI 3818

Scientific Engineering (Contd)

the Determination and Evaluation of Profits in Production Planning for Iwo-leat Rolling Mills With the Object of Devising the Best Economic Programme, by A. F. Oberhofer, H. Kassnitz, GERMAN, per, Stabl and Risen, Vol LXXXIII, 1963, pp 1451-1458.

\*BISI 3824 Comparison of Various Instruments for Measuring the Surface Roughness, by U. Kraune, O. Pawelaki, GRRMAN, per, Stahl und Bisen, Vol LXXXIV, 1964, pp 839-868. \*Bish 3819
Development and Prosent State of Open-Coll
Annealing, by R. Schneider.
GERMAN, per, Stahl und Eisen, Vol LXXXIV, 1964,
PRIST 3820 Porging Press With Centre Guide Shaft, by A, liertl, it, Rothauser. GERMAN, per, Stabl und Eisen, Vol LXXXIV, 1964, pp. 913-919. Forging Press With Welded Frame, by K. Nickrawictz, GRRMAN, per, Stald und Bisen, Vol LXXXIV, 1904, pp 920-925, \*BISI 3837 Improving the Pornestion of the Structure and Mechanical Properties of Electro-Slag Wolds, by F. Josnitzer, J. Schubert. GRRMAN, per, Z fuor Schwolssischnik, 1901. PHSI 3835 Branched Pressure Pipe Line Unit With Radaforcement Rth, by Encher Wyss, 6 pp. ITALIAN, Patent, No. 591,082, Patent Office. Some Pactorn Affecting the Efficiency of Preparative Scale Gas Chromatography, by I. Lakeda JAPANESE, per, Kogyo Kagaku Zanahi, Vol LXVI, 1964, pp 442-446, Pisheries Research Board of Canada, lech Stations Dosign and Construction of a Preparative Scale Gan Chromatograph, by I. Tukeda, Y. Mashiko. JAPANISIK, per. Kogyo Kagaku Zanghi, Vol I XVI, 1963, pp 446-450. Fisheries Research Board of Canada, Tech Stations Venturi Typo Scrubber for Gan Cleaning in the Metallurgical Industry, by La Briesand. NORWEGIAN, per, Trisskrift for Kemi Heravegen og Metallurgi, Vol XXIII, No 5, 1963, pp 102-109. The Problem of Determining the Optimum Critical Operating Parameters for a Nonlsobark Motor With Divorgent Nozzle, by R. Stantszewikt, 53 pp. POLISH, per, Archivan Budowy Manzyn, vol X, No 2, 1963, pp 103-140. 9693557 FTD-11-64-497 The Proparation of Steel Standards in the Laboratory, by S. Grzegorczyk.

POLISM, por, Chemia Anality zna, Vol VII, 1962, pp 333-341.

\*BESI 3822 Power Engineering in Poland in 1963-1964, by Franciszek Brzozowski, o pp. POLISH, per, <u>Energetyka</u>, No 5, 1964, pp 129-132. JPRS 25363 Lubrication of Turbojet and Turboprop Engines, by S. Bzczinski, M. Lyzwinski, 13 pp. POLISH, per, Wolskow Przeziad Lothiczy, No. 3, 1903, pp. 47-55. 9693496 PTE-TT-64-143

Scientific Materials & Metallurgy

Aluminum Alloys, by I. N. Pridlyander, 475 pp.

RUSSIAN, bk, Alvuminiyevyye Spiavy, No 3, Moscow, 1963, pp 1-404. JPRS 25642 Corrosion and Irradiation, by V. V. Gerazimov, A. I. Gromova, et al, 277 pp. RUSSIAN, bk, Korroziya i Oblucheniye, Moscow, 1963, pp 1-270, JPRS 26020 Furnace Brazing of Metals With Controlled Atmospheres, by R. Ye. Yesenberlin. (NY-9363) RUSGIAN, ht. Payka Metallov v Pechakh s Gazevoy Sredoy, Leningrad, 1958, pp 3-96. Deformation and Descruction of Rolled Bery of Different Purity, by V. M. Amonenko, V. M. Azhazha, et al., 10 pp. RUSEAN, per, Atom Energ. Vol XVI, No 6, May 1964, pp 426-432.

JPRS 26301 Deformation and Descruction of Rolled Beryllium Electroslay Wolding of Forgings of Alloy V,6 by V, P, Didkovskiy, V, F, Grabin, et al, 8 pp, RUSSIAN, per, Avtomat Svarks, No 2, 1964, pp 54-58. JPRS 25757 Electrosiag Welding of Low-Alloy 16GS(3N) Steel With a Thickness of 50-140 MM, by S. V. Yunger, G. N. Gorkununko, 8 pp. RUSSIAN, per, <u>Aytomat Syarka</u>, No 2, 1964, pp 67-71. JPRS 25757 Behavior of Drop and Surface of the Molten Bath in Electrosing Remeiting, by V. V. Panin, O. B. Borovskiy, et al, 5 pp. RUSSIAN, per, Avtomat Syarka, No 2, 1964, pp. 72-74. pp 72-74. JPRS 25757 Guarantee of Precise Dimensions of Cylindrical Parts in Ricctrosiag Welding, by I. I. Sushchuk-Slyusarenko, V. M. Khrundzhe, ct al, 7 pp. RUSSIAN, per, <u>Avtomat Svarka</u>, No 2, 1964, pp 77-80. JPRS 25757 The Mechanization and Automation of Metallurgical Production, 9 pp. RUSSIAN, por, Motallurg, No 6, 1964, p 3, JPRS 26280 Production Properties of an Aluminum Production Properties of an Atturnature Oxide-Copper Ally, by Yu. N. Semenov, G. 5. Shmakov, et al, 8 pp. RUSSIAN, per, Poroshkov Metallurg, Vol I, No. 3, 1961, pp. 40-46.

JPRS 26000 The Shortcomings of Certain Works on Brazing, by I. I. Hyovskiy, 9 pp. RUSSIAN, por, Svaroch Proiz, No 5, 1964, pp 36-39.

JPRS 26036 An Answer to I. I. Hisyevakiyis Article "The Shortcomings of Certain Works on Brazing", by S. V. Lashko, N. F. Lashko, 9 pp. RUSSIAN, per, Svaroch Protz, No 5, 1964, pp 39, 40, 45. JPRS 26030 Investigation of the Physical Properties of Substances at High Temperatures, by I, I, Novikov, P. G. Strelkov, 7 pp. RUSSIAN, por, Vest Ak Nauk SSSR, No 6, 1964, pp 26-30, JPRS 26065

Scientific Materials & Metallurgy (Contd)

Biectrolytic Production of Uranium and Thorium From Fused Saits, by W. Rafaiski. CROATIAN, rp., Second Yugoslav-Polish Symposium on Uranium Technology and Metallurgy, 1963. Electrodeposition in Fused Salt Baths of Powder Alloys of Zirconium-Miobium, by C. Decroiy, R. Minand. DUTCH, por, Journal of Loss-Common Metals, Vol VI, 1964, pp 132-151. \*AEC ..., use openation of U = UC Mixtures, by G. Baudin, J. Besson, et al, 13 pp. PRENCH, per, Journal of Nuclear Materials, Vol X, 1963, pp 173-181. ARC-ORNI.-Fr-123 Hydrogenation of U - UC Mixtures, by G. Baudin, Analysis of the Iron Components of High Tensite to see and of Several Complex All., Having Copper and Alumium Bases, by P. Gaillard, copper and Adminim Bases, by P. Gaillard, R. Weill, 11 pp.
PRENCH, per, Memoires Scientifiques de la Revue de Metalfurgle, Vol I.VII, No 12, 1960, pp. 889-900, 9223333 ACSIL Tr 1464 Study of the Possibilities of Production of Zircontum Metal by Are Electrolysis of Zircontum Oxides, by C. Decroly, A. Pontana, et al. PRENCH, por, Memoires les Scientifiques de la Revue Metallurgie, Vol LXI, 1964, pp 287-298. The Dunkirk Iron and Steel Plant: The Sectiverks, PRENCH, per, Metallurge et la Construction Mechanique, No 5, 1963, pp 453-463, \*BIBI 3528 Strengthening of Neutron-Irradiated Single Crystals of Copper. III, Interpretation and Ryaluation of Some Characteristic Values of Strengthesing, by Armin Ruckwied, Joerg Dichl, 25 pp. GERMAN, rpt, Max-Planck-Institut Fuor Motallfornchung, Suitgart, 1963, ARC-ANI.-11-19 Thin-Layer lonophorests of Inorganic Materials at Low and High Voltage With the Use of Radionuclides, by A. Moghisat, 8 pp. GERMAN, per, Analytica Catinica Acta, Vol XXX, 1964, AEC-ORNL-11-128 The Pirst Reaction Producds of Alkali Metals on Butadiene, by K. Ziegler, L. Jakel, 43 pp. GRRMAN, per, <u>Annalen der Chendo</u>, Vol XIII, No 51, 1934, pp. 64-88. Patent Office Contribution to the Problem of Evaporation When Constitution of the Problem of Payer II.

Melting Iron Alloys in the Vacuum. Part II.

Investigations on Buarty Alloys of Iron With Chromium,

Cobalt, Nickel, Aluminium and Billcon as Well as in the

System Iron - Phosphorus - Oxygen, by W. A. Placher, M. Derenbach. GERMAN, per, Archiv fuer Eisenhuttenwesen, Vol XXXV, No 5, 1964, pp 391-399. \*HISI 383]
On the Compatibility of Uantum Dioxide and Aluminum, I, Communication: Studies on the Kinetics of the UO2-Al Reaction in Powder Briquets, by R. Rollig, 14 pp. GRRMAN, per Kernenergie, Vol VI, No 12, 1963, pp. 685-691. 9224334
ARC-ANI-17-17 On the Compatibility of Uranium Dioxide and Aluminum. If, Communication: Studies on the inhibition of the UO2-Al Reaction in Dispersion-Type Fuel Elements, by H. E. Rollig, 17 pp.

GRIMMAN par Kennonyuda, V. I. VI. SE. 1, 1024

GERMAN, per, Kernenergie, Vol VI, No 1, 1964, pp 11-18, 9224336 ABC-ANI.-Fr-18 Scientific
Materials & Metallurgy (Contd)

Absorption of Hydrogen by Lead and Lead Alloys

Containing Magnesium and Calcium, by W. Mannchen, Containing Magnesium and Calcium, by W. Mani, M., Baum, 10 pp. GERMAN, per, <u>Metall</u>, Vol IX, No 15, 16, 1955, pp 686-689. 9223340 AEC-AI-Tr-52 The Purity of Chemicals With Regard to the Production of Semi-Conducting Elements, by D. Ketler. or solutionated Religions, by D. Reder. GERMAN, per, Solid State Electronics, Vol VI, No 6, 1963, pp 605-610.
\*AERE-liarwell Possibility of Separation of Particles of Different Shapes in Metal Powders, by F. Eisenkolb. GERMAN, per, <u>Stabl und Bisen</u>, Vol LXXXIV, 1964, pp 734-739.

\*BISI 3334 Since and Temperature Conductivity of Porous Sintered Materials, by W. Richter, 20 pp. GERMAN, per, Wissenschaftliche Zeitschrift der Hochschule fuor Maschinenbau Karl-Marx-Stadt, Vol IV, 1982, pp. 37-42.

AEC-NP-Tr-1247 The Magnetism of Pletinum-Manganese Alloys and of Their Oxidic Phases, by T. Yokoyama, M. Wittig, GERMAN, por, Z fuer Metallkunde, Vol LIV, No 5, 1963, pp 308-311. Reduction of Thermal Porces to Ideal Purity of Metals, by Max Kohler, 20 pp. GICRMAN, por, Z fuer Physik, Vol CXXVI, 1949, pp 481-494. Navy Tr 3885/NRL 983 Reaction of Metallic Tungsten and Fluorine Gas, by Mates Iwanaki, Tancaki Yahata, et al, 15 pp. JAPANESE, per, Kogyo Kagaku Zaashi, Vol LXV, 1962, pp 1165-1167.
ARG-UCRL-Tr-1044(L)
Study on the Preparation of Urantum Carbides, by K. Yamamoto. JAPANISH, per, <u>Nihon Genshiryoku Gakkaishi</u>, Vol VI, No 3, 1964, pp 6-13. \*ABRE-Harwell Steel Spectroscopy, by J. Kethelyi, POLISII, por Chemia Anniityczna, Vol VII, 1902, pp 133-147.

\*\*iliäl 3823 Ricctrical Conductivity of Alkaline Titanium Earths, by K. Pigon. POLISH, per, Roczniki Chemii, Vol XXVIII, 1954, pp 611-628. Some Studies of Early Medieval Glass Making in Poland, by M. A. Bezvorodov, J. Olczak, 23 pp. POLISH, per, Szkio i Ceramika, Vol XII, 1961, pp 97-103, ABC-NP-Tr-1249

Scientific Mathematics & Data Processing

Criterion of Optimum Recommica, by V. F. Pygachev, RUSSIAN, bk, <u>Ekonomika-Matematicherkiye Metody</u>, Vypusk i: Narodnokhozyaysiyennyye Medeli. Teoreitcherkiye Yoprosy Pottebleniya, Moscow, No I, 1963, pp 63-106. JPRS 26267 Algorithms for the Statistical-Combinatory Modeling of Syntax, Word-Formation and Semantics, by N. S. Andreyev, 50 pp. Semantics, by N. S. Andreyev, 50 pp. RUSSIAN, br. Marcrialy 10 Matematicheskoy Lingvistike i Mashimoumu Perevedu, Vol II, 1963, pp 3-44. JPRS 26209 The Statisxical-Combinatory Separation of the The Statistical Conference of Separation of the Paradigm of the First Morphological Type in the Russian Language, by L. D. Andreyeva, 22 pp. IUSZIAN, hk. Materials to Matematicheskoy Lingstatike i Mashinnoumu Perevodu, Vel II, 1963, pp 43-60.

JPRS 20209 The Two Types of Grammatical information and Their Relation to the Language-Intermediate, By B. M. Leykina, 14 pp.
RUSSIAN, bk, Materialy po Matematicheskoy Lingvistike 1 Maailinnoumu Perevodu, Vol II, 1963, pp. 73-85.
JPRS 26209 Concerning the Syntax of the Intermediaz Language, by P. Sgall, 6 pp. RUSSIAN, bk, Materialy to Matematicheskoy Lingvisitke i Mashinnoumu Perevodu, Vel II, 1963, pp 86-91. JPRS 26209 Discriminators and Converters in Algorithms for Machine Translation, by N. D. Kremneys, 5 pp. RUSSIAN, bk, Materialy to Matematicheskoy Lingvinike i Mashimoumu Percyedu, Vol II, 1963, pp 92-96, JPRS 26209 First Experiment in Machine Translation With by N. D. Androyev, V. L., Zambi Zinakiy, 14 pp RUSSIAN, bk, Materialy to Matematicheskiy Lingvistike i Mantimoumu Perevolu, Vel II, 1963, pp 101-112. JPRS 26209 the Use of an Intermediate Language, Word Order During the Synthesis of a Russian word order Dating the synthesis of a Russian Sentence, by L. N. Zasorina, 9 pp. RUSSIAN, bk, Materialy po Matematicheskoy Lingvisitke i Manhimoumu Perevodu, Vol II, 1963, pp 143-121.

JPRS 26209 Formal Rules for the Search for the Object of a Verl Work in Machine Translation From Chinese, by T. N. Nikitina, 16 pp. ny 1, N. Riktina, 10 pp. RUSSIAN, bk, Materialy po Matematicbenkov Longviatike i Maahlmoumu Perevodu, Vol II, 1963, pp 122-136. JPRS 20209 Presymactical Sections of an Algorithm fo. Independent Analysis of the Hindi Language, independent Analysis of the Hindi Language, by N. N. Volkov, 15 pp. RUSSIAN, by, <u>Materials po Maternaticheskoy</u> Lingvisitée i <u>Mashimoumu Perevodu</u>, Vol II, 1963, pp. 137-149. JPRS 26209

Scientific Mathematics & Data Processing (Cont.)

The Initial Stage of Independent Analysis of the German Simple Extended Sentence, by A. R. Belopolskaya, A. B. Kovrigin, 14 pr. RUSSIAN, bk. Materialy po Matematicheskoy Lingvistike i Mashinnoumu Perevodu. Vol II, 1963, pp 130-160, JPRS 26209 Two Possible Means for Processing Information in Machine Translation From Acabic Morphological Analysis Program, by O. B. Frolova, Analysis Program, by O. B. Prolova, S. Va. Pitalov, 12 pp. RUSSIAN, bk, Materialy po Matematicheakoy Lingvistike i Mashinnoumu Perevodu, Vol II, 1963, pp 101-170. JPRS 20209 Some Initial Data for the Algorithmic Processing of Korean Toxt, by G. A. Pak, N. M. Volkova, et al, 5 pp.
Russian, bk. <u>Materialy po Matematicheskoy</u>
Lingvistiko i <u>Mashlunoumu Perevodu</u>, Vol II,
1963, pp 171-175.
JPRS 26209 JPRS 26209
Elimination of Ambiguities in Independent Analysis, by N. N. Volkov, 5 pp.
RUSSIAN, bk, Materially po Matematicheskoy
Lingvistike I Maninecumu Perevodu, Vol II,
1903, pp 176-180.
JPRS 26209 A Frequency Dictionary of the Rumanian and Moldavian Languages, by L. A. Novak, 16 pp. RUSSIAN, bk, Materialy po Matematicheskoy Lingvistike I Machinnoumu Perevedu, Vol II, 1963, pp 181-195. Foreign Developments in Machine Translation and Information Processing, by I. A. Melichuk, 35 pp. RUSSIAN, rpt, Slavyanekoye Yazykoznaniye, No 160, 1963. JPRS 25849 Sufficient Conditions for Deriving and Optimizing amneient Conditions for Deriving and Optimizing a Method of Dynamic Programming, by V. G. Boltyanskiy, 44 pp. RUSSIAN, per, IzAk Nauk SSSR, Seriya Matemat, Yel XXVIII, No 3, May, Jun 1964, pp. 481-514, JPRS 26273 The Difference Method of Numerical Calculations of Discontinuous Solutions of Equations in Hydrodynamics, by S. K. Godunov. RUSSIAN, per, Matemat Shornik, Vol XLVII(89), No 3, 1989, pp 271-306. Rasential Conditions for Optimal Control in Banach Spaces, by Yu. V. Yegorov, 33 pp. RUSSIAN, por, Maternat Spornik, Vol LXIV, No 1, May 1904, pp 79-101. JPRS 26168 General Equations of Inertial Navigation, by V. D. Andreyev.

RUSSIAN, per, Pilk Matemat I Mekh, Vol XXVIII,

No 2, 1964, pp 242-257.

\*Navy/APL J427 Geodenic Lines on Lyapunov Surfaces With a Metric of Bounded Curvature, by Yu. G. Reshetnyak. sictic of bounded curvature, by ru. G. Reshel RUSSIAN, per, Sibirakty Matemat Zhur, Vol V, Ro 2, 1964, pp 477-479. Navy Tr 3880/API, 11063 Method for Using a Computer to Work Out Consolidated Labor Norms, by S. Sarkinyan, 9 pp. RUSSIAN, per, Solstalisticheskiy Trad. Vol IX, No. 5, 1964, pp. 65-70.
JPRS 75883 Scientific
Mathematics & Data Processing (Contd)

Difference Method of Calculating Shock Waves, by S. K. Go unov. RUSSIAN, per Uspekh Maternat Nauk, Vol XI, No 1, 1946, pp 175, 177. Use of a New Reduction Method in a Problem on Rigenvalues for Partial Differential Equations, by R. Klotzler. RUSSIAN, per, Zhur Vychislitel Matemat | Matemat Piz, Vol 1V, No 3, 1964, pp 434-448.
\*Navy/APL J430 Methods of Dynamic Programming in the Theory of Optimum Equations I, Systems Permitting Use of the Control Scale, by N. N. Molseyev, 16 pp.
RUSSIAN, por, Zhur Vychial Mare i Mate Piz,
Vol IV, No 3, May, Jun 1964, pp 485-494.
JPRS 26013 Programming blased on control Layers and by M. A. Osipova, Yu. A. Sheryder, 15 pp. RUSSIAN, pos. Law Vychtel Mate | Mate Piz. Vol IV. No 3, May, Jun 1954, pp 525-535.

JPRS 20013 Recommical Organization of Information Search and Retrieval With Extra Storage. by V. V. Martynyuk, 10 pp.
RUSSIAN, per, Zhur Vychtal Mate i Mate Fiz,
VJ1V, No 3, May, Jun 1964, pp 536-543,
JJPRS 26013 JPRS 20013

Numerical Solution of the Cauchy Problem for Linear Second-Order Equations of Parabolic Type, by V. G. Sragovich.

RISSIAN, per, Zhur Vychistici Malemat i Matemat Hz, Vol IV, No 3, 1963, pp 592-596.

Navy/APL J429

Diophantine Approximations and Numerical intersection. gration I, by Hua Lo-keng, 6 pp. CHINESE, per, kto-hauch Tung-pao, No 6, 1964, pp 518-520, JPRS 26510 Diophantine Approximations and Numerical Diophantine Approximations and county (car integration II, by lina Lo-keng, Wang Yuan, 5 pp. CHINESH, per, Klo-hauch Flung-pao, No 6, 1964, pp. 520, 521. JPRS 26310 Build-Up Factors, Coefficients of the J. J. Laylor Rund-up factors, Coefficients of the 3. 3. 1 aylor Runation, by 8. Bancagillone, R. Manzini, 19 pp. 17ALIAN, rpt, Sul Fattori de Accumulazione Coefficienti dela Formula 3. 3. 1 aylor, Peli 1964. AEC-ORNI.-Tr-80 The Probability That Three Independent Phenomena of Equal Duration Will Overlap, by M. Olenzkiewicz. POLISH, per, Polakie Fowarzystwo Matematyczne, Roczniki, Praco Matematyczne, Vol IV, 1960, pp 1-7. Automatic Computation of Correlation Functions in the Case of Nominiform Travel of Signal-Carrying

the came of ryomanitoring a rayer of algorite-carrying Tape, by G. O. Ball, 19 pp.
DKRAINIAN, per, <u>Aytomatika</u>, No. 1, 1963, pp. 47-58.

PTD-1T-64-294

Scientific Nuclear Science & Technology

Isotope Gamma-Installations, by A. V. Bibergal, V. I. Smitzin, et al. RUSSIAN, bk, Izotopyne Gamma-Ustanovki, Moscow, 1960, 156 pp. \*AEC-Tr-6469

Some Peatures of Decay of Dy Compound Nuclei With High Angular Momentum, by G. Kumpf, V. A. Karnaukhov. RUSSIAN, rpt, Joint Institute for Nuclear Research, \*AEC

Gross Sections and Average Angular Momenta of Compound Systems in Reactions With Heavy Ions, by V. V. Babikov. RUSSIAN, rpt, Joint Institute for Nuclear Research.

biotronic Discharge Chamber for the Detection of Tracks of Relativistic Charged Particles, by M. M. Butslov, V. I. Komarov, et al. RUSSIAN, rpt, Joint Institute for Nuclear Research,

Experimental Investigation of Angular Distribution in Transfer Reactions With Ne20 and A40 Ions, by E. Lozhinski, 31 pp. RUSSIAN, rpt, Joint Institute for Nuclear Research, 1963. 9224330 ARC-UCRL-Tr-1080

A Polarised Proton Target for Experiments With liigh-Energy Particles, by S. M. Bilonkiy, I. I. Lapidus, et al. RUSSIAN, rpt, Joint Institute of Nuclear Research,

\*ARRE-Harwoll

Quant-Classical Model of Triple Plaston, by B. F. Geylikenan, G. I. Khlobnikov. RUSSIAN, br, <u>Kvasiklassichoskaya Model' Troynogo</u> Deleniya, Moscow, 1964.

Penetration of Charged Particles Through Matter, by S. V. Staroduht sev, A. M. Romanov.
RUSSIAN, bk. Prokhozhdonic Zarvashennykh Chastita Chercy Veshchostvo, Tashkent, Uzvek, 1962, 228 pp.
\*ARC-Tr-6468

Radioactive Isotopes and Nuclear Reactions in the National Economy of the USSR. Transactions of the

Symposium.

RUSSIAN, bk. Ysosovuznove Soveshchaniya Do Vnedrenivu Radjosktivnykh izotopov i Yadernykh izdicheniy v Narodnom Khozyaystvo SSSR, Riga, 1960, I, 100 pp.

\*AEC-Tr-0466

Nuclear Reactions for Low and Medium Rinergies.
Proceedings of the All-Union Conference, July 1960.
RUSSIAN, bk., Yadernye Reaktest pri Majykh i Srednikh
Energyakh, Trudy Viorol Vacacyuznol Konferentsii,
Juli 1960, Moscow, 1962, 658 pp.
\*ARC-Tr-6465

Synthesis of Element-102 Isotope With Mass Number 256, by R. D. Doneta, V. A. Suchegolev, et al., 40 pp. RUSSIAN, per, Atom Elects, Vol XVI, 1964, pp. 195-206, ARC-NP-T1-1137

Extraction of Tracer Amounts of Hydrofluoric Acid by Tributyl Phosphate, Isolation of Carrier-Pree Pluorine-18 From a Neutron-Irradiated Lithium Salt, by V. I. Lev'n, L. S. Kozyreva. RUSSIAN, per, RadioMilmiya, Vol V, 1963, pp 41-49. Scientific Naclear Science & Lechnology (Contd)

The Use of an Ion Exchange Reain as the Aqueous Phase Carrier in Partition Chromatography, the Separation of Zn, Cd, and Hg, by L. N. Moskvin, B. K. Preobrazi-nekly. RUSSIAN, per, Radiokhimiya, Vol V, No 3, 1963, pp 299-304.

Partition Chromatography on an Ion Exchange Resin-II, The Separation of Rh, Pd, Ir, and Pt, hy L; N. Moskvin, B, K. Preobrazhenskiy. RUSSIAN, per, <u>Radiokhimiya</u>, Vol VI, No 2, 1964, pp 237-241.

Critical Heat Fluxes in Circular Channels. by V. I. Subbotin, B. A. Zenkovich, et al, B pp. RUSSIAN, per, Teploenergetika, Vol X, No 10, 1963, pp 72-75.
AEC-Tr-6393

The modynamics of Dielectrics, by M. I. Snakhparonov RUSSIAN, por, Vest Moskov Univ. No 6, 1963, pp 11=13, ARC

Protective Properties of Certain Types of Concrete, by V. N. Avayev, G. A. Vasiliyev, et al, 8 pp. RUSSIAN, por, <u>Yoptosy Piz Zashchity Reaktorov</u>, 1963, pp 163-198. JPRS 25467

Counters and Dominiotors for Studying Shielding and the Protective Proportion of Materials, the Protective Proposition of Materials, by Y. N. Avsgev, G. A. Vasiliyav, 16 pp. RUSSIAN, per, Voprosy Piz Zashchity Rusktorov, 1963, pp 260-276, JPRS 25467

New Design of Reactor Complex and of Loading Mechaniam, by R. Martin, 30 pp. FRENCH, rpt, Cannon, Franco, 1962. AEC-ORNI - Tr-82

Fortran Program for Calculating Absorption and Double Scattering Corrections in Fast Neutron Cross-Section Measurements Uning the Monte Carlo Method, by B. Fornandez, 10 pp. FRENCH, rpt, 1963, ABC-ORNL-Tr-79

The Recrystallization of UO2 at High Temperatures. PRENCH, rpt, Conference on the Technology of New Nuclear Manyrials, Especially of Non-Metallic Pucl Cartridges, 1-13 Jul 1965. ARC-IW-Tr=66

Determination of Iodine in Biological Media Using Radioactivation Analysis, by D. Comar. FRENCII, rpt, <u>Dosage de l'Iodide dans les Milieux</u> Biologices au Moyen de l'Analyse par Radioactivation. Saclay. \*ARC

Pluctuations in a System Depending on Several Random Parameters, Application to Nuclear Reactors, e at ameters. Application to Nuclear Reactors, by A. Blaquiore, R. Pachowska.
FRENCH, rp. Plucuations d'un Systeme Dependent de Plusiers Parametres Accaleires, Application sus leagueurs Nucleaires.
ARC

On the Central Extensions of the Connected Inhomogenous Lorentz Group, by Louis Michel. FRENCH, rpt, Ramort do le Institut des litutes Etudes Scientifiques.

\*\*ARC\*\*

The Period Safety Trip During the Starmp of Atomic Reactors, by J. Furet.

PRENCH, rps, La Securito Periodo Pendant lo
Demarrago dea Piles Ajonitques.

AEC-ORM,-Tr-292

Scientific
Nuclear Science & Technology (Contd)

On the System U, Pu C,N,O as Applied to Sintered Carbides, Carbo-Nitrides and Oxy-Carbidos, by F. Angolin, G. Dean, et al. FRENCII, rpt, Symposium on Carbides in Nuclear Energy, 5-7 Nov 1963.

Statistical Methods in Radioprotection, by R. Court, 14 pp. PRENCH, per, Bulletin dinformations Scientifiques et Techniques, No 72, 73, May, Jun 1963, pp 83-89. 9223341

High-Temporature irradiation Sources 1, 1000°C Capsules With Electrical Heating Temperature Regulation, by P. Millies, C. P errier, 6 pp. PRENCH, per, Bulletin d'Informations Scientifiques et Techniques, No 75, 1963, pp 101-104, 9224371 AEC-NP-Tr-1140

Effects of Neutron Irradiation Upon the Thermal Conductivity of Nuclear Graphitos, by M. Bocquet, G. Micaud, 12 pp. FRENCH, per, <u>Journal of Nuclear Materials</u>, Vol X, No 3, 1963, pp 215-223. 9224370 AEC-NP-Tr-1141

Coarse-Grained Inorganic Ion Exchangors With an Inactive Matrix, by K. H. Konig, H. Schafer, et al. FRENCH, per, <u>Radiochimica Acta</u>, Vol I, 1963, pp 213-216.

Thermoluminescence Dosimetry, Part III, Luminescence and Nuclear Irradiation, by R. Schayes, C. Brooke, 63 pp.
FRENCH, per, Revue M.B.L.E., Vol VI, No 4, 1963, pp. 5-29,
ABG-UGRL-Fr-1007(L)

Construction of two Neutron Detectors Using Moderation for the Radiation Protection Monitoring of the Darmstadt Linear Accelerator, by G. Jackel. GRRRMAN, rpt, Darmstadt, 1963. \*ARRE-Barwoll

Measurement of Radioactivity in the Air Resulting From the Operation of the Darmstadt 60 MeV Bloctron Linear Accelerator, by D. Krauss. GERMAN, rpt, Darmstadt, 1963. \*AERE-Harweil

Radiation-Induced Chemical Processes for the Modification of Natural and Synthetic Textile Pibres, by E. Schwarz, H. Roudeix. ORRMAN, rpt, Symposium on the Use of Radiosctive Isotopes in Textile Research and Industry, Lindau am Bodensee, Jul 1964.

\*ARRE-Harwull

Condensation of Cellulose Cross-Linking Agents by Riection Irradiation, by W. Ruttiger, D. Heinze. GERMAN, rpt, Symposium on the Use of Radioactive Isotopes in Textile Research and Industry, Lindau am Bodensee, Jul 1964.

\*ARRE-Harwell

Irradiation of Cellulose and Cellulose Derivatives, by F. Munzel, J. Schenkel.
GRRMAN, rpt, <u>Symposium on the Use of Radioactive Isotopes in Textile Research and Industry</u>, Lindau am Bodensee, Jul 1964.
\*ARRIC-Harwell

Scientific
Nuclear Science & Technology (Contd)

Activation Analysis and Textile Research, by H. Glubrecht. GERMAN, rpt, Symposium on the Use of Radioactive Isotopes in Textile Research and Industry, Lindau am Rodensee, 3ul 1964.

\*\*ABRE-liarwell\*\*

Analysis of Textile Threads With Radio-Nuclides, by W. Kuhn.
GERMAN, rpc. Symposium on the Use of Radioactive lactores in Textile Research and Industry. Lindau am Bodensee, Jul 1964.

\*AERE-Harweil

The Use of Contactions Surface Density Measurement in the Textile Industry, by K. Herlitze. GERMAN, rpt, Symposium on the Use of Radioactive Industry, Lindau am Bodenseo, Jul 1964.
\*ARRE-Harwell

Combined Measurement Methods for Density and Moisture Content, by H. Glubrecht, H. Binsch. GBRMAN, rpt, Symposium on the Use of Radioactive Isotopes in Textile Research and Industry, Lindau am Bodersee, Jul 1966.

\*ARRE-Harweit

The Use of Radioactive Inotopos for the Analysis of the Wear and Tear of Cotton Materials, by J. Jensen. GERMAN, rpt. Symposium on the Use of Radioactive Interpretation Textle Research and Industry, Lindau am Indeprese, Jul 1964. \*AERE-Harwell

Investigations on Lanthonin Formation From Cystine and Sulphite With the Use of Radioactive Labelled Compounds, by R. Zahn, R. Ulrich. GERMAN, rpt, Symposium on the Use of Radioactive Isotopes in Foatle Research and Industry, Lindau am Bodensee, Jul 1964.

\*\*ARRE-Harwell

Results From the Construction of a Supersonic Iconoscope, by W. Freitag, H. J. Martin. GERMAN, per, <u>ACURICA</u>, Vol VIII, 1958, pp. 197-200. \*AEC

Control and Instrumentation of Fast Reactors, by P. Dosch.
GERMAN, per, Archiv fuer Technisches Messeen und Industrelle Messeechulk, No. 326, Mar 1983, pp 23-36.

\*ARC

Influence of the Retirctor on the Temperature Coofficions of a Reactor, by Rherhard Kern, 38 pp. GRRMAN, per, Atomkernenergie, Vol VIII, 1963, pp 41-51. ARG-ORNI,- ir-70

A Simple Quantum Mechanical Interpretation of Fant-Neutron Shielding, by R. Beynam. GRRMAN, per, <u>Alomkornenutate</u>, Vol IX, No 3, 4, 1964, pp 99, 100. \*AEC

Thormal Decomposition and Combustion Processes in Explosives, by K. K. Andrejev, 29 pp. GERMAN, per, <u>Explosivatoffe</u>, No 12, 1960, pp 275-284. 9224346 AEC-LA-fr-64-2

Scientific
Nuclear Science & Technology (Contd)

Liminescent Phenomena and Zirconia Research, by Berthold C. Weber, 27 pp.
GERMAN, per, Keramische Zeitschrift, Vol XV, 1963, pp 192-198.
AEC-UCRL-Fr-1048(L)

Oscillographic Measurement of Very Short Resolving Times, by J. Weber, 6 pp. GERMAN, por, Nuclear Instruments and Methods, Vol XXV, 1964, pp 285-287. 9224335 AEC-ANI-Tr-20

Beta-Gamma Circular polarization-Corrolation of Sc  $^{46}$  and its Chemical Origins. Appendix I, Determination of Random Coincidence in a Fast-Slow Coincidence Circult. Appendix II. Multiple Scattering During Measurements of  $\beta$ -Directional Distribution From Polarized Nuclet,  $\beta$ - $\gamma$ -Circular Polarization Correlation, and  $\beta$ - $\gamma$ -Directional Correlation, by H. Daniel, 6 pp. GERMAN, per, Nuclear Physics, Vol XI.V, 1963, pp 529-554. ARC-IS-Tr-1

Thermal Diffusion of Li Isotopes in Pure Molten Lithium Nitrate, by Silas Gustafsson, Arnold Lunden, 6 pp. GERMAN, per, Z fuer Naturforschung, Vol XVIIa, 1962, pp 550-552, AEC-AI-Tr-45

Magnetic Mirrors to Provide Controlled Hydrogen Pusion, by Angelo Coen, 7 pp. ITALIAN, np. Paese Sera, 3 Jul 1964, p 3. JPRS 26022

We Saw the Pamous Hot Cells at Saclay, by Angelo Goen, 6 pp. 17ALIAN, np. <u>Paese Sera</u>, 6 Jul 1964, p 3. JPRS 26022

Sindy of K Cu(CN)<sub>2</sub> in the Crystalline State by Ultra-Red Spectrometry, by Vincenzo Lorenzelli, Francesco Gesmundo.

ITALIAN, per, Rendiconti Accademia Nazionale del Lincol, Series 8, Vol XXXV, No 6, 1963, pp. 524-529, ARCC.

Oxidation of Methane at High Temperatures, by I. A. Schneider.
ITALIAN, per, Studii at Cercetari de Chimie, Vol XI, No 3, 4, 1963, pp 325-330.
\*ARRE-itarwell

Discrimination of Neutrons Fram Gamma Rays in the Scintillation Counter, by Takayoshi Puse, 12 pp. JAPANESR, rpt, Japan Atomic Rnorgy Rosearch Institute, Jan 1961. 9224359
AEC-ANL-Tr-26

A Calculation of the Maximum Concentration on the Ground and Its Distance From Source, by K. Imai. JAPANUSE, rpt, Japan Atomic Energy Research Institute, 1962.

Rapid Determination of Nitrogen in Nitroccillulose and Nitric Acid by Titration With Ferrous Sulphate, by Tetsuro Murakant, 20 pp. JAPANESB, per, <u>Bunneki Kaguku</u>, Vol IX, 1960, pp 100-105. ARG-UGRL-Tr-1052(L) Scientific Nuclear Science & Lechnology (Contd)

Experimental Research on the Penetration of Co-60 Garama-Ray Inrough Finite Homogeneoun and Heterogeneoun Media, Parts I and II, by H. Mochizuki, Y. Tanaka, et al, 47 pp.
JAPANESB, per, Mippon Genshiryoku Gakkaishi. Vot IV, 1962, pp 448-456.
ARC-NP-1r-1139

Exchange of lons at the Surfaces Between Precipitates and Solutions, by K. Hayashi.

JAPANISE, per, Nippon Kagaku Zasshi, Vol LXXXIII,
1962, pp 1068-1074.

\*AEC

Report on the Institute of Nuclear Physics of Rumania, by Adrian Costa, 5 pp. RUMANIAN, np. Flacara, Jul 1964, pp 4-7. JPRS 26221

Physics.

Classification and Identification of enj-Coefficients some 21]-, 24]- and 27]-Coefficients, by S. Budryte, A. Jucys, 9 pp. RUSSIAN, rpt. 9224360 ABC-ANL-Tr-10

On the Emiasion of Solar Corona in the Soft X-Bay Region, by E. P. Fettsov. RUSSIAN, rpt, Ob Izla hend: Solmochtol Korony Y. Myackol Rentaenovskol Oblasti, 1963, pp 1-12. \*Navy/NRI.

Telemetering of Radioactive Radiations, by A. A. Bragin, V. N. Mikhaylovskiy, 7 pp. RUSSIAN, bk. <u>Felezmerentye Radioaktivnykh</u> Uzluchonty, Kiev, 1965, pp 3-6, 155, 156.

Theory of the Propagation of Superlong Waves, by P. Ye, Krasmonkin, N. A. Yahlochkin. (NY-9348) RUSSIAN, monograph, <u>leorica Rassicostrangulya Sye, khullimizki Yolin</u>, 2nd Moncow, 1963, pp 1-94.

The Catalytic Autoxidation of Primary Aromatic Amines in the Presence of the Complex Pyridino - Cuprous Chloride, by A. P. Ferentiyev, Ya. D. Mogliyanskiy, 5 pp. RUSSIAN, per, Dok Ak Nauk SSSR, Vol Cili, No 1, 1955, pp 91-93. 9224362. ARG-SC-1-64-937

The First Boundary Value Problem for Elliptic Equations Which Degenerate the Domain Boundary, by A. Narchayev RUSSIA, per, Dok Ak Nauk SSSR, Vol CLVI, No 1, 1964, pp 28-31, \*Navy/API, J431

the First Houndary Problem for Some Differential Equations With Constant Coefficients, by S. G. Ovneplan. RUSSIAN, per, Dak Ak Nauk SSSR, Vel CLV, No. 3, 1964, pp 524-537. Navy Tr 3351 API, 14064 Scientific Physics (Contd)

Physics. April 1964, by M. Millionshchikov, 5 pp. RUSSIAN, np, Izvostiya, 1 May 1964, p 5. JPRS 25814

On a Superdense State of Material in the Universe, by G. S. Saakyan.

RUSSIAN, por, Iz Ak Nauk Armyanskoy SSR, Flz
Matomat Nauk, Vol XV, 1962, pp 123-134.

MARC

On the Stability of Motion of a Gyroscopic Pendulum, by V. P. Lyshonko. RUSSIAN, per, Iz Ak Nauk SSSR Otdel Tekh Nauk McKh I Mash, No 4, 1963, pp 3-6. Navy Tr 3876/APL T1059

Two Theorems of the Theory of a Linear Homogeneous Differential Equation, by F. A. Mikhailov. RUSSIAN, por, Iz Vysshikh Ucheb Zaved Matemat, No 2, 1964, pp 120-126. Navy Tr 3879/APL T1062

EPR Spectra of 1102 and DO2 Radicals Obtained by Preozing the Products of Rarefied Plames at 77°K, by V, N. Panfilov. RUSSIAN, por, <u>Kinotika i Kataliz</u>, Vol V, No 2, 1964, pp 211-214. Navy Tr 3875/APL T1050

The Positive Astatine Ion in Nitric Acid Solution, by Van-Fu-Tszyun, Yu. V. Norseyev, et al, 9 pp. RUSSIAN, por, Radiokhimiya, Vol V, 1963, pp. 351-355.

ARC-ANL-Tr-29

Determination of Actual Surface Contact Areas in Transparent Models, by E. M. Shvetsova,

RUSSIAN, per, Sbornik Institut Mashinovedenta, Vol VII, 1953, pp 12-33, 9693404 DDC RSIC-192

A Generalization of a Theorem of Armellini, Tonelli, and Sansone, by Kiguradze.

RUSSIAN, por, Trudy Ak Nauk Gruzinskoy SSR, Ser Mokh i Mato Nauk, Vol LXXXIV, 1962, pp 233-238.

\*ARC

Molecular Ordering of Polymors, by D. N. Bort, Yu. V. Ovchinnikov, et al. RUSSIAN, per, <u>Vysokomolekulyarnye Soyedineniya</u>, Vol IV, 1962, pp. 935-937.

Triplet Splitting of Atom Terms With Two Valent 2p-Electrons, by A. P. Yunta, V. K. Shugurov, et al, 11 pp.
RUSSIAN, per, Zhur Eksper 1 Teoret Fiz, Vol XXIII, 1952, pp 517-524.
ABC-ANL-Tr-25

Polarography and Thermodynamics. II. Solubility and Thermodynamical Properties of Batium Selenate, by N. M. Selivanova, A. F. Kapuntinskiy, 11 pp. RUSSIAN, per, <u>Zhur Fiz Khim</u>, Vol XXVII, 1953, pp. 565-571. ARC-ANL-Tr-23

Transition of Normal Burning of Porous Explosives to Detonation Under Conditions of Slowly Increasing Pressure, by V. K. Bobolev, I., F. Chekirda, et al, 7 pp.
RUSSIAN, per, Zhur Prik Mekh i Içkir Fiz, No 4, 1963, pp 99-101. 9224345
ARC-LA-Tr-04-3

Scientific Physics (Contd)

The Deceleration and Energy Convarsions of a Plasma Expanding in a Vacuum inthe Presence of a Magnetic Field, ny Yu. P. Rayzor, 18 pp. RUSSIAN, por, Zhur Prik Mekh i Tekh Fiz, No 6, 1963, pp 19-28, 9223417 NASA TT F -239

On the Calculation of the Propagation of Harmonic Porturbations in a Liquid Which Filis Serially and Parallely Connected Pump Aggregate Pipes, by Yu. N. Grizodub, 12 pp. RUSSIAN, per, Zhur Tekh Fiz, Yol XXI, 1951, pp 564-572.

AEC-ANL-Tr-24

On Estimates of Solutions of Boundary-Value Problems for a General Second-Order Riliptical Pquatton With Discontinuous Coefficients, by RUSSIAN, por, Apar Vycholitel Material I Material Flz, Vol IV, No 3, 1964, pp 577-580.

\*Novy/APL J428

Dynamics of Catalytic Chromatogram 1. Problems on the Half Regional Width and the Retaining Time of the Reactant and Reaction Product During the Linear Equilibrium Chromatogram, by Chang Su, Lou Nan-chiuan, 8 pp. CHINESE, per, K'o-hauch T'ung-pao, No 6, 1964, pp 548-550, JPRS 26193

Mothod of Models in Statistical Physics, by Chen Chun-syan. CHINESE, per, Wu-II Hauch-pao, Vol XVII, 1961, pp 77-87.

A Stabilized ± 20 Kv Power Supply for an Electrochinkes, per, wu-ii Hauch-pao, Vol XVIII, 1962, pp 563-571.

The State of Stress in a Paick-Walled Cylindrical High-Pressure Contained Made of Prestressed Concrete, by Radim Servit, 28 pp. GZECH, per, Jaderna Energie, Vol IV, 1958, pp 19-26. AEC-ORNI-17-81

All Union Conference on the Technique of Infrared Radiation and Ita Utilization in Science and Industry, by V. Kotosovec, 9 pp. GZECH, per, Jenna Mechanika a Optika, Vol. VIII, No. 2, 1963, 9693556 PTI-TT-64-211

Power Excursion in the Alizo I Critical Experiment, by D. Breton, Y. Girard, 12 pp. PRENCH, rpt, 1961. AEC-NP-Fr-1144

Experimental Contribution to the Study of Gas Bearings, by Gerald Gobert, FRENCH, bk, Contribution Experimentale a laRtude den Palter a Gaz, 1963, 95 pp.

The Dislocations of Alpha Uranium, by J. Leteurtre, 26 pp. FRENCH, rpt, Lea Diniocationa de l'Uranium Airlis, Mar 1964. 9224361 ARC-ANL- Fr-22

Scientific Physics (Contd)

Study of the Behavior of Artificial Radioactive Acrosols, Applications to Some Problems of Atmospheric Circulation, by Gerard Lambert. FRENCH, bk, <u>Rude du Comportement dos Acrosols Radioactifs Artificials</u>, <u>Applications a Qualques Problems de Circulation Atmospherique</u>, Nov 1963, 227 pp.

Proporties of Ta Grystal Levels Having a Cubic Symmetry, by Y. Ayant, 11 pp. FRENCH, rpt. First International Conference in Jerusatems Paramagnetic Resonance, Vol I, Jul 1962, pp 267-278. 9224338

ABC-ORNL-Tr-63

Pierrelatte Works on the Separation of Uranium Isotopos. PRENCH, rpt, <u>Pierrelatte</u> Usine de Separation des Isotopos de <u>L'Uranium</u>, 39 pp. \*AEC

Diffusion of Interstitial Atoms and Empty Spaces in Copper at Inflorent Temperatures, 8 pp. FRENCH, per, Collegges Internationaux du Contro National de la Recherche Scientifique, No 113, 1962, pp 125-128.

AEC-ORNL-Tr-92

Treatise on the Chromatic Polarization Produced by Compressed Glass, by M. G. Worthelm, 5 pp. FRENCH, pc. Compres Rendus, Vol CCXXXII, 1950, pp 289-292. 9693578 DDC RSIC-231

Attack on Glass by Ionic Bombardment, by M. Navoz, C. Solla, 5 pp. FRENCH, por, Compton Ronding, No 2, Jan 1962, pp 240-242. 9223386 ACSIL Tr 1561

Production of Zirconium Metal From the Oxide by Electrolysis of Ioneous Melts, by Claude Decrely, Andro Fontana, et al. PRENCII, per, Compto Rendus, Vol CCLV, 1962, pp 2953, 2954.

Determination of the Toneor Parameters of Proton-Deuteron Scattering, by R. Bourtey, R. Chaminado, et al, 5 pp. PRRNCH, por, Comptes Rendus, Vol CCL,VII, Aug 1963, pp 1267-1270. 9224337 ARG-LA-Tr-64-1

Harnessing the Mechanical Energy of the Waves, by M. Gariel, 18 pp. FRENCH, per, Houlle Blanche, Vol XII, No 5, 1957, pp 778-783.

ARC-NP-Tr-1145

A Study of Remote Interactions Within Macro-molecular Chains, by M. Leng, It. Benoit, 8 pp. PRRNCH, per, Journal de Chimie Physiques, Vol LIX, 1962, pp 929-932.
ARC-SC-T-64-902

A Practical Method for Inventigating and Measuring the Birefringence of Optical Glass, by If, L. 1ardy, 12 pp.
PRENCH, per, Reyno d'Optique, Vol VIII, 1929, pp. 59-59, 9093580
DIC RSIC-236

Scientific Physics (Contd)

The Electron Microprobe -- Applications in Metallurgy, by V. Leroy, L. Habraken, 27 pp. FRRNCH, per, Revuo Universelle des Mines, Vol XIX, 1963, pp 45-62.

AEC-TRG-Inf-Ser-382

Fortran Program for the Minimization of an n-Variable Function, by J. Rognon, 25 pp. GERMAN, rpt, 31 Jul 1963. AEC-ANL-Tr-13

Beconomic Aspects of the Enrichment of Urantum by Gaseous Diffusion, by J. Gaussons, R. Jacques, et al, 34 pp. GERMAN, rpt, Collogium on Puel Cycles, Badon-Badon. AEC-ORNL-Tr-134

Heat Conduction in Insulators, by G. Leibfried, 43 pp. GERMAN, bk. Encyclopedia of Physics, Vol II, pp 290-316.
AEC-ORNL-Tr-90

Cinematographic Analysis of the Practure Phenomenon, by Hubert Schardin, 22 pp. GERMAN, rpt, Proceedings of the Symposion Zarkleinern, Symposium on Size Reduction, Apr 1962, pp 31-48. Navy Tr 3886/NRL 984

Point by Point Study of the Surface of a Crystal by Berg-Barrett Type Methods, by C. Bousquet, M. Lambert, et al., 14 pp. GERMAN, per, Acta Crystallographics, Vol XVI, 1963, pp 989-993. 9224357
AHC-UCRL-Tr-1055(L)

High-Purity Gormanium -- Surface Conduction and Carrier Life, by F. Aurich, R. P. Kleicknecht, et al., 29 pp.
GRRMAN, per, Annalon der Physik, Vol XI, No 7, 1963, pp 83-100.
ABC-ORNI,-Tr-120

Basic Data and Principles for the Insurance of Radioisotope Application, by H. F. Schmitt, GERMAN, per, <u>Dio Atomwirischaft</u>, Vol IX, 1964, pp 108-113, \*ARC

Theory of Thought Processes, Parts 1-3, by P. S. Putter. GRMAN, per, Elektronische Datenverarbeitung, 1963, No 1, pp 27-40; No 2, pp 8-101; No 3, pp 123-132.

Dilatation and Thermoelectric Power of a Plutonium at Low Temperature, by R. Lallement, 10 pp. GERMAN, per, Journal of Physical Chemical Solids, vol XXIV, 1963, pp. 1617-1624.

ARC-LA-Tr-64-5

Decoupling Bridges for In-Parallel Connection of Transmitters in the Medium and Long Wavelength Region, by W. Bunchbeck, 23 pp. GERMAN, por, Nachrichteniechmische Zeitschrift, Vol XV, No 5, 1962, pp 223-231, Navy Tr 3883, NRI. 981

History of the biscovery of Synthetic Riements, by P. Raumgartzer.
GRRMAN, per, Naturwissenschaften, Vol 11, 1904, pp 1-8.
\*\*ARC

Scientific Physics (Contd)

Calculation of the Shielding Factor for Hot-Cells, by J. M. Pictet, 15 pp. GERMAN, por, Neuo Technik, Vol V, 1963, pp. 504-508, 9224351
AEC-ORNL-Tr-89

Installation for the Production of Radioisotopes, by H. Huegii, J. Petcr, et al, 27 pp. GERMAN, por, Neuo Technik, Vol V, 1963, pp 542-547. ABC-ORNL-Tr-24

Stimulation of X-Radiation by Canal-Ray Impacts, by C. Gerthsen. W. Reusse, 12 pp. GERMAN, por, <u>Physikalische Zeitschrift</u>, Vol XXXIV, 1933, pp. 478-482. 9224339
AEC-UCRL-Tr-1056(L)

A Purely Optical Method for the Direct Measurement of Moments in Thin Bent Plates, by Henry Pavre, Bornhard Gilg, 26 pp.
GERMAN, per, Schweizertsche Bauzettung, Vol LXVIII, No 19, 1950; pp. 253-257; No 20, 1950, pp. 265-267. 9693581
DDC RSIC-237

On the Dirational Process of Pilling in Parachute Modeln of Different Construction Types and Air Permeability, by H. D. Melzig.
GERMAN, per, Wissenschaftliche Gesellschaft fuer Luttahrt, 1959, pp 292-298.

AEC

Chomisorption as the Initial Process in the Reaction of Gases With Solids, by II. J. Engell, 24 pp. GBRMAN, por, <u>Z fuor Elektrochemic</u>, Vol I.XVI, 1962, pp 617-627.
ARC-SC-T-64-901

Ricctrical Strongth and Grystal Structure, by A. V. Hippel.
GERMAN, per, Z fuer Physik, Vol LXXV, 1932, pp 143-170.
AEC

Higher States of Excitation of Color Centers, by Fritz Luty, 20 pp. GERMAN, per, Z fuor Physik, Vol CLX, 1960, pp 1-15, 9224353 AEG-ORNL-Tr-71

The Attachment of Padioactive Atoms to Aerosol Particles, in the Particle Range From 0.7 to 5n. Radius, by Lars Lassen, Herman Weicksel, 11 pp.
GRRMAN, per, Z fuor Physik, Vol CLXI, 1961, pp 339-345.
Navy Tr 3887/NRL 985

Representation by Pormula of the ionization Cross-Section for Electron Impact, by H. W. Drawin. GERMAN, por, Z fuor Physik, Vol CLXIV, 1961, pp 513-521.

Ultrared Ansorption and Phonon-Free Transitions in Radiation-Discolored LiF, by Wolf von der Onten, Wilholm Waldelich.
GERMAN, por, Z fuer Physik, Vol CLXXVIII, 1964, pp 244-252.
\*AEC

Scientific Physics (Contd)

On Oxidation Ferments From Higher Plants, II, On Lipoxidane and Lipodehydrase and Their Mutual Corrolations, by Wilhelm Franke, Helmut Frehse, 30 pp. GERMAN, per, 2 fuer Physiologische Chemie, Vol CCXCVIII, 1954, pp 1-26. ABC-ANL-Tr-21

Statistical Theory of the Counting of Alpha Particles Emitted by Successive Disintegrations of Radicelements, by M. Raybrechus, 31 pp.
1TALIAN, por, <u>Nuovo Cimento</u>, Vol VI, No 10, 1957, pp.811-831.
AEC-ANL-Tr-30

Annual Report of the Japanese Association for Radiation Research on Polymers, JAP ANESR, bk, Nippon Hoshasen Kobunshi Kenkyu Kyokal Numpo, Vol IV, 1952, 304 pp.

Photographic Factor in Electromicrograph, by Yasuo Shimizu, 19 pp.

JAPANESH, por, Journal of Electrommicroscopy, Vol XI,
No 4, 1962, pp 199-206. 9224354

ARC-SC-1-64-619

Nuclear Magnetic Resonance of High Polymers, I. Apparatus for Nuclear Magnetic Resonance and Second-Order Transitions of High Polymers, by Big-zo Nahara, JAPANESR, per, Kolumahi Kagaku, Vol XIII, 1956, pp 531-539, \*ARC

Thormal Conductivity of High Polymers, I. Thermal Conductivition of Poly Vinyl Chloride and Poly Vinyl-Vinyl Acetaes, by Makoto Hattori, JAPANESK, per, Kolumbii Kagaku, Vol XV, 1958, pp 215-217.

Thermal Conductivity of High Polymors. II. Thermal Conductivities of Polystyrene and Palyothylene, by Makoto Hattori, Osamu Kamike. JAPANESE, per, Kobunshi Kazaku, Vol XV, 1958, pp 285, 286.

Thermal Conductivity of High Polymers, III. Thermal Conductivity of Low-Fressure Polyethylene, by Makoto Hattori.

JAPANIESE, per, Kobunshi Kanaku, Vol XVII, 1960, pp 432-435.

AriC.

Polymers, by R. J. Kawaguchi. JAPANESE, per, Zairyo Shiken, Kyoto, Vol. X, 1961, p. 394. \*ARC

A Further Investigation of Polygonal Conditions, by J. Ciplys, S. Budryte, et al, 8 pr., LITHIANIAN, per, Licuyos Fiz Kinkinys, Licuyos TSR Mokalu Akademiis Licuyos TSR Aukaturios Mokykios, Vol I, 1961, pp 263-268.
ARC-ANI.- Fr-11

Study of the Velocities of Longitudinal Plantic Waves on Perforated Models, Saturated Witt-Liquids, by G. I. Petkovich, T. Z. Verbiskis, 7 pp.
UKRAINIAN, per, <u>Longyidi Ak Nauk Ukra an'koy</u>
RSR, No II, 1963, pp. 1470-1473. 9693497
FTD-11-64-210

Scientific Miscellaneous

A Higher Order of Cybernetic Machines, by L. I. Sharol<sup>†</sup>, 33 pp. RUSSIAN, rpt, <u>Novoye v Zhizni</u>, <u>Nauke</u>, <u>Tekhnike</u>, No 24, 1963, pp 1-39. JPRS 25927

The Possible and Impossible in Cybernetics, by A. Berg, E. Kol'man, 216 pp.
RUSSIAN, bk, Vozmozhnoye i Nevozmozhnoye v
Kibernetike, Moscow, 1963, pp 1-222.
JPRS 26201

Cybernetics, Planning and Social Progress, 20 pp. RUSSIAN, np, Ekon Gazeta, No 25, 20 Jun 1964, pp 7-9, 17. JPRS 26063

List of Candidates for Active and Corresponding Members of the Academy of Sciences USSR, 56 pp. RUSSIAN, np, <u>Izvestiva</u>, 8 Jun 1964. JPRS 25898

Session of the General Meeting of the Acadmy of Sciences USSR, by V. G. Kocherezhkin, 5 pp. RUSSIAN, per, 12 Ak Nauk SSSR--Seriva Biolog. No 3, 1964, pp 490-492.
JPRS 25805

Discrete Indicator of the Limiting Value of the Product of Two Continuous Voltages, by E. A. Yakubaytis, M. P. Vayvars, et al, 12 pp. RUSSIAN, per, Iz Ak Nauk Laiviy SSR, Seriya Fiz i Tokh Nauk, No 3, 1964, pp 77-87, JPRS 26028

Diagnosis of Systems by Building Their Models, by L. A. Rastrigin, 8 pp. RUSSIAN, per, Iz Ak Nayk I atviy SSR, Seriya Piz i Tekh Nauk, No 3, 1964, pp 95-102.

JPRS 26028

Some Problems of Chemical Cybernetics, by G. N. Kobalev, L. A. Rastrigin, et al, 21 pp. RUSSIAN, per, Iz Ak Nauk Latviy SSR. Serivs Fiz i Tekh Nauk, No 3, 1964, pp 103—119.

JPRS 26028

Announcement of Examinations for Filling Vacancies, 8 pp. RUSSIAN, np, Medit Gazeta, 19 May 1964, p 4. JPRS 26268

USSR Academy of Medical Sciences Announces Enrollment Openings for Aspirantura and Internships on a Full-Time Basis at Scientific Research Institutes in the Following Fields, 5 pp.
RUSSIAN, np, Medit Gazeta, 19 May 1964, p 4. JPRS 26268

List of Candidates for Activ Membership With the Academy of Sciences of the Ukrainian SSR, o pp. RUSSIAN, np, <u>Prayda Ukrainy</u>, 6 May 1964,. p 3. JPRS 20017

List of Candidates for Corresponding Membership With the Academy of Sciences of the Ukrainian SSR, 12 pp.
RUSSIAN, np, Pravda Ukrainy, 7 May 1964, pp 3, 4.
JPRS 26017

Scientific Miscellaneous (Contd)

Stability on the Whole of Stochastic Systems, by I. Ya. Kats, 11 pp.
RUSSIAN, per, Priklad Mate i Mckh, Vol XXVIII,
No 2, 1964, pp 366-372.
JPRS 25874

Reduction of One Class of Optimum Control Problems to the Simplest Variational Problem, by G. N. Mil'shteyn, 11 pp. RUSSIAN, per, <u>Priklad Mate i Mekh</u>, Vol XXVIII, No 2, 1964, pp 375-380. JPRS 25874

Measures to Improve the Quality of Machines and Equipment, by A. N. Dem'yanovich, 6 pp., RUSSIAN, per, Yest Mashinostroveniya, No 10, 1963, pp 86-88.

JPRS 25885

The Concept of Information in the Light of Lenin's Theory of Reflection, by N. I. Zhukev, 12 pp.
RUSSIAN, por, Voprosy Filosofii, No 11, 1963, pp 153-161.
JPRS 26012

Kiev Higher Radiotechnical Engineering School Teaches English During Sleep, by M. Konstantinovskiy. RUSSIAN, per, Znanive Sila, No 3, 1964. JPRS 25895

Development of a Method of Teaching During Sleep, 8 pp.
RUSSIAN, per, Znaniye Sila, No 3, 1964, pp 42-46.
JPRS 25895

On the Use of Cybernetic Teaching Machines, by Nadhezhda Konstantinova-Antonova, 14 pp. BULGARIAN, per, Narodna Prosveta, No 6, 1964, pp 64-74. JPRS 25893

Conference on Cooperation Among Scientific-Technical Organizations of Socialist Countries, Budapest, 11-16 May 1964, 13 pp. BULGARIAN, np, <u>Teknichesko Dolo</u>, 13 Jun 1964, p 2; 20 Jun 1964, p 3. JPRS 25884

The New Organizational Structure of the Union and the Draft Statute for Scientific-Technical Unions in Bulgaria, by Ivaylo Videnov, 8 pp. BULGARIAN, np , Tekhnichesko Delo, 4 Jul 1964.

JPRS 25879

The Twelfth Plenum of the Central Council of the Scientific-Technical Union, 6 pp. BULGARIAN, np, Tekhnichesko Delo, 4 Jul 1964, pp 1, 2. JPRS 25879

Absoluteness and Relativity of Criteria for Practice as Applied to Chemical Factory Test Fields, by Lu Kfuel-hung, 11 pp. CHINESE, per, Hung-chi, No 12, 30 Jun 1964, pp 45-51.

JPPS 25998

New Developments and Technical Advancements in the Quantum Measurement of Time, by Wang T\*jon-chuan, 18 pp. CHINESE, per, K\*e-hsuch T\*ung-pao, No 6, 1964, pp 471-481. JPRS 26128 Scientific Miscellaneous (Contd)

Problem of Adhesion, by WuShih-kiang, Chou I-chiin, et al, 25 pp. CHINESE, per, kio-hauch Tiung-pao, No 6, 1964, pp 482-494.

JPRS 26193

Dynamics of Catalytic Chromatogram, by Chang Su, Lou Nan-chiuan, et al, 9 pp. CHINESE, per, Kio-hsuch Tiung-pao, No 6, 1964, pp 551-554.

JPRS 26128

A Simple Counter Arrangement for Weak Activities, by II, Seidler, M. Haertig, 6 pp. GERMAN, per, <u>Isotopentechnik</u>, Vol II, 1962, p 80. AEC-ORNL-Tr-129

Scientific and Technological Research and Propagation at the Hanoi Machine-Tool Plant, by Vo Thanh Cong, Dang Dikh Thanh, 8 pp. VIRTHAMESE, pet, Tin Tue Hoat Dong Khoa Hoe, No 59, May 1964, pp 1-3.

JPRS 25459

#### INFORMATION RECEIVED DURING SEPTEMBER

#### ON COVER-TO-COVER TRANSLATIONS

Acta Mathematica Sinica, Vol XIV, No 2, 1964. Amer Math Soc Vol V, No 2 Byulleten' Eksperimental'noi Biologii i Meditsiny, Vol LV, No 5, 6, 1963. CB Doklady Akademii Nauk SSSR, Earth Science Sections. Vol CXLV, No 1-6, Jul, Aug 1962. Amer Geol Inst Doklady Akadomii Nauk SSSR, Physical Chemistry Section, Vol CLI, No 1-6, 1963, CBDoklady Akademii Nauk SSSR, Physics Sections, Amer Inst of Phys Vol CLIV, No 1-3, 1964. Sov Phys-Doklady Vol IX, No 1 Fizika Tverdogo Tela, Vol VI, No 1, 1964. Amer Inst of Phys Sov Phys-Solid State Vol VI, No 1 Inzhenernyy Zhurnal, Vol III, No 2, 1963. JPRS 26019 Izvestiya Akademii Nauk SSSR, Seriya Fizichoskaya, Vol XXVII, No 8, 1963. CTT Izvestiya Vysshikh Uchebnykh Zavedeniy Priborostroyoniyo. Vol VII, No 2, 1964, JPRS 26079 Kolloidnyi Zhurnal SSSR, Vol XXV, No 6, Nov. Dec 1963. CB Kristallografiya, Vol IX, No 1, Jan, Feb 1964. Amor Inst of Phys Sov Phys-Crystal Vol IX, No 1 Mikrobiologiya, Vol XXXII, No 5, Sep. Oct 1963. CB Optika i Spektroskopiya, Vol XVI, No 5, 1964. Opt Soc of Amer Radiokhimiya, Vol IV, No 6, Nov, Dec 1962. CB Radioteklmika i Elektronika, Vol VIII, No 9-12, 1963, TEEE Radiotekhnika i Elektronika, Vol 1X, No 1, 1964. IEEE Teoriya Veroyatnostei i Yeye Primeneniya, Vol VIII, No 4, 1963. SIAM

Primary Sources

JPRS 26211

Tsvetnye Metally, Vol IV, No 4, 1963.

Vestnik Svyazi, Vol XXIV, No 6, 1964.

Vestnik Svyazi, Vol XXIV, No 8, 1964. (NY-7855)

Zhurnal Eksperimental'noi i Tooreticheskoi Γiziki, Vol XLVI, No 2, 1964.

Zhurnal Prikladnoi Khimii, Vol XXXVI, No 7, 1963.

Zhurnal Tekhnicheskoi Fiziki, Vol XXXIV, No 1, 1964.

\*JPRS

Amer Inst of Phys Sov Phys-JETP Vol XIX, No 2

CB

Amer Inst of Phys Sov Phys-Tekh Phys Vol IX, No 1

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7 September 2004

Ms. Roberta Schoen
Deputy Director for Operations
Defense Technical Information Center
7725 John J. Kingman Road
Suite 0944
Ft. Belvoir, VA 22060

Dear Ms. Schoen:

In February of this year, DTIC provided the CIA Declassification Center with a referral list of CIA documents held in the DTIC library. This referral was a follow on to the list of National Intelligence Surveys provided earlier in the year.

We have completed a declassification review of the "Non-NIS" referral list and include the results of that review as Enclosure 1. Of the 220 documents identified in our declassification database, only three are classified. These three are in the Release in Part category and may be released to the public once specified portions of the documents are removed. Sanitization instructions for these documents are included with Enclosure 1.

In addition to the documents addressed in Enclosure 1, 14 other documents were unable to be identified. DTIC then provided the CDC with hard copies of these documents in April 2004 for declassification review. The results of this review are provided as Enclosure 2.

We at CIA greatly appreciate your cooperation in this matter. Should you have any questions concerning this letter and for coordination of any further developments, please contact Donald Black of this office at (703) 613-1415.

Sincerely,

Moncy Later Scrifer
Sergio N. Alcivar

Chief, CIA Declassification Center, Declassification Review and Referral

Branch

### **Enclosures:**

- 1. Declassification Review of CIA Documents at DTIC (with sanitization instructions for 3 documents)
- 2. Declassification Status of CIA Documents (hard copy) Referred by DTIC (with review processing sheets for each document)



# **Processing of OGA-Held CIA Documents**

The following CIA documents located at DTIC were reviewed by CIA and declassification guidance has been provided.

OGA Doc ID Job Num Box Fidr Doc	Job Num	Box	Fldg	- 1	Doc 10	Decument Title	Pub Date Pages	Pages	Decision	Proc Date
AD0834364	78-03109A	52	-		62	Consolidated Translation Survey For February 1963	2/1/1963	232	Approved For Release	3/25/2004
AD0402915	78-03109A	52	1 7		63	Consolidated Translation Survey For March 1963	3/1/1963	314	Approved For Release	3/25/2004
AD0405169	78-03109A	52	-	8	64	Consolidated Translation Survey For April 1963	4/1/1963	278	Approved For Release	3/25/2004
AD0409473	78-03109A	52	-	<b>.</b>	65	Consolidated Translation Survey For May 1963	5/1/1963	358	Approved For Release	3/25/2004
AD0413153	78-03109A	53	-	-	99	Consolidated Translation Survey For June 1963	6/1/1963	361	Approved For Release	3/25/2004
AD0414818	78-03109A	53	-	2	67	Consolidated Translation Survey For July 1963	7/1/1963	249	Approved For Release	3/25/2004
AD0418328	78-03109A	53	-	3	68	Consolidated Translation Survey For August 1963	8/1/1963	324	Approved For Release	3/25/2004
AD0834365	78-03109A	53	-	4	69	Consolidated Translation Survey For September 1963	9/1/1963	193	Approved For Release	3/25/2004
AD0423936	78-03109A	53	-	5	70	Consolidated Translation Survey For October 1963	10/1/1963	232	Approved For Release	3/25/2004
AD0426736	78-03109A	53	-	9	71	Consolidated Translation Survey For November 1963	11/1/1963	298	Approved For Release	3/25/2004
AD0428566	78-03109A	53	-	7	72	Consolidated Translation Survey For December 1963	12/1/1963	298	Approved For Release 3	3/25/2004
AD0431011	78-03109A	53	-	8	73	Consolidated Translation Survey For January 1964	1/1/1964	273	Approved For Release	3/25/2004
AD0433215	78-03109A	53	-	6	74	Consolidated Translation Survey For February 1964	2/1/1964	200	Approved For Release	3/25/2004
AD0437984	78-03109A	75	-	_	75	Preference and Company of the Compan	3/1/1964	305	Approved For Release	3/25/2004
AD0440831	78-03109A	54	-	2	76	Consolidated Translation Survey For April 1964	4/1/1964	155	Approved For Release	3/25/2004
AD0442174	78-03109A	54	-	က	77	Consolidated Translation Survey For May 1964	5/1/1964	249	Approved For Release	3/25/2004
AD0443106	78-03109A	54	-	4	78	Consolidated Translation Survey For June 1964	6/1/1964	191	Approved For Release	3/25/2004
AD0444756	78-03109A	54	-	2	79	Consolidated Translation Survey For July 1964	7/1/1964	169	Approved For Release	3/25/2004
AD0447557	78-03109A	54	-	9	80	Consolidated Translation Survey For August 1964	8/1/1964	153	Approved For Release	3/25/2004
AD0450482 •	78-03109A	54	-	7	81	Consolidated Translation Survey For September 1964	9/1/1964	141	Approved For Release	3/25/2004
AD0451428	78-03109A	54	-	æ	82	Consolidated Translation Survey For October 1964	10/1/1964	149	Approved For Release	3/25/2004
AD0453181	78-03109A	24	-	တ	83	Consolidated Translation Survey For November 1964	11/1/1964	157	Approved For Release	3/25/2004
AD0455133	78-03109A	24	-	10	84	Consolidated Translation Survey For December 1964	12/1/1964	121	Approved For Release	3/25/2004
AD0456859	78-03109A	72	-	11	85	Consolidated Translation Survey For January 1965	1/1/1965	179	Approved For Release	3/25/2004
AD0458780	78-03109A	24	-	12	98	Consolidated Translation Survey For February 1965	2/1/1965	161	Approved For Release	3/25/2004
AD0461501	78-03109A	25	-	-	87	Consolidated Translation Survey For March 1965	3/1/1965	301	Approved For Release	3/25/2004